

TESTED: SONY ALPHA 57
LOW-COST PERFORMER



TESTED: NIKON D4
ALL-ACTION BODY

Saturday 14 April 2012

amateur Photographer

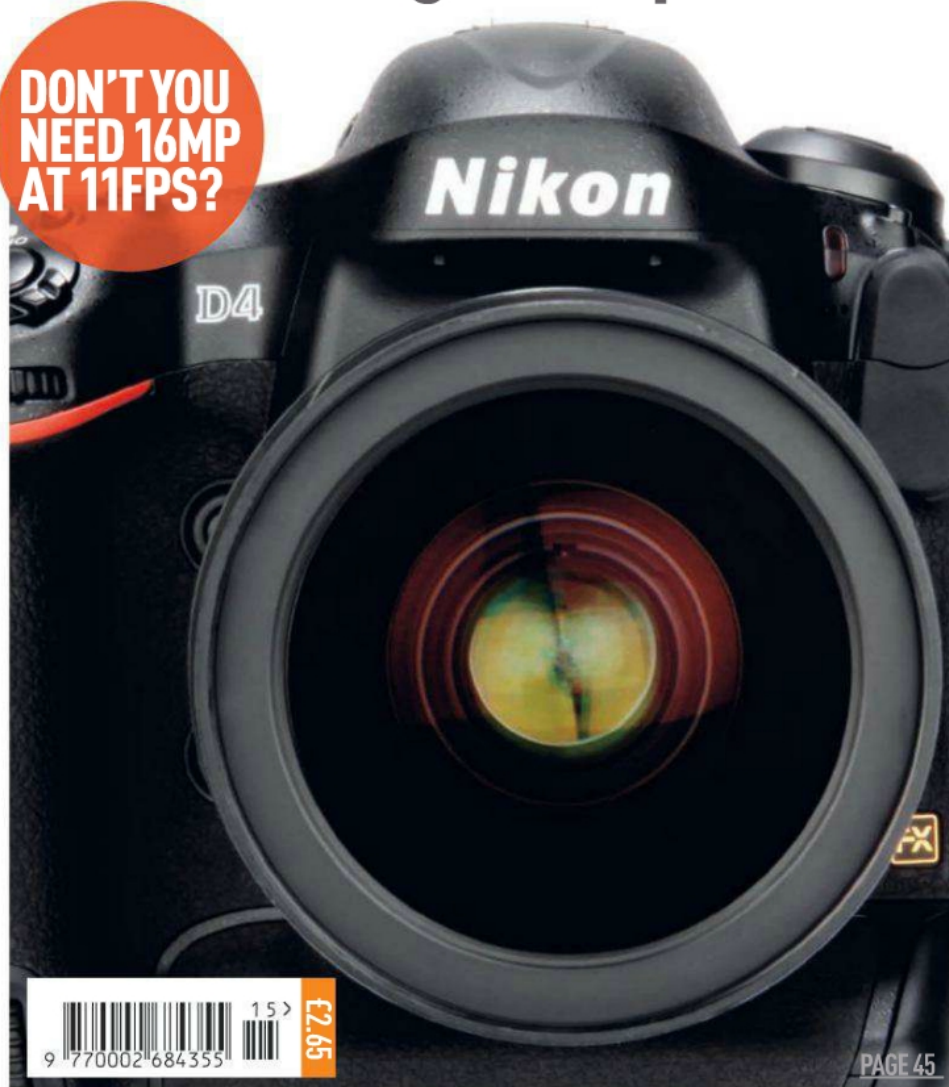
THE WORLD'S NO.1 WEEKLY PHOTO MAGAZINE

www.amateurphotographer.co.uk

NIKON D4

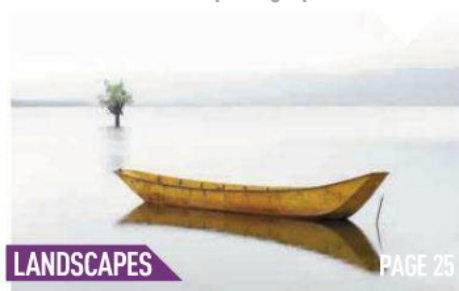
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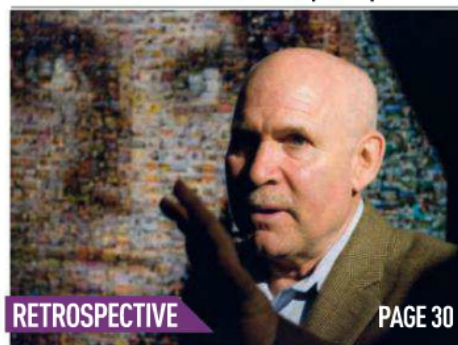


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Charlie Waite's new perspective



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FANTASTIC JOURNEY

Steve McCurry's life and work



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SHOOTING BIRDS

Technique tips from Andy Rouse



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At the heart of the image



Contents

Amateur Photographer For everyone who loves photography

I GET to eat a lot of fancy food in this job. I'm not saying that I don't like sophisticated fusions of international cuisine. It can be fun. My favourite meal of the week, though, is cheese and biscuits, eaten on a Sunday evening with some olives. It is simple, but eminently satisfying, and I look forward to it all week. There are a number of base elements that particular meal contains, and the limited combination of prominent flavours makes me very happy. There's no 'hint' of anything, or 'un soupçon', just straightforward flavours that work well together.

Simple is, I believe, much more sustainable than complex. It is less tiring, and it is something that can be returned to over and over without boredom.

In gastronomy, as well as in photography, simple isn't hard to do, except for the temptation and compulsion to do something beyond. But in fact simple is almost always best.

In his new book, *Arc and Line*, Charlie Waite emphasises the power of simplicity over the complex compositions and multi-layering that many photographers labour to perform. Pictures can be about an edge, a curve, a colour or a combination of shapes. And aren't they so much better for it?



Damien Demolder
Editor

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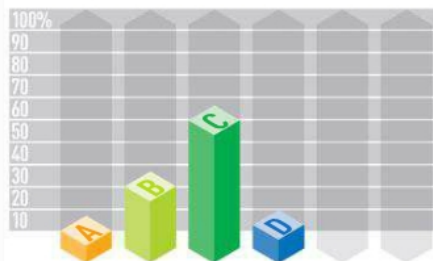
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Your chance to win a Manfrotto Unica VII Messenger Bag worth £84.95, as Damien Demolder examines your images

THE AP READERS' POLL

IN AP 24 MARCH WE ASKED...

What is the longest shutter speed you could manage handholding a full-frame camera fitted with a 90mm lens?



YOU ANSWERED...

| | |
|-----------------------|-----|
| A 1/8sec or longer | 7% |
| B 1/15sec-1/30sec | 26% |
| C 1/60sec-1/125sec | 57% |
| D 1/250sec or shorter | 10% |

THIS WEEK WE ASK...

What is the more important part of a picture to you?

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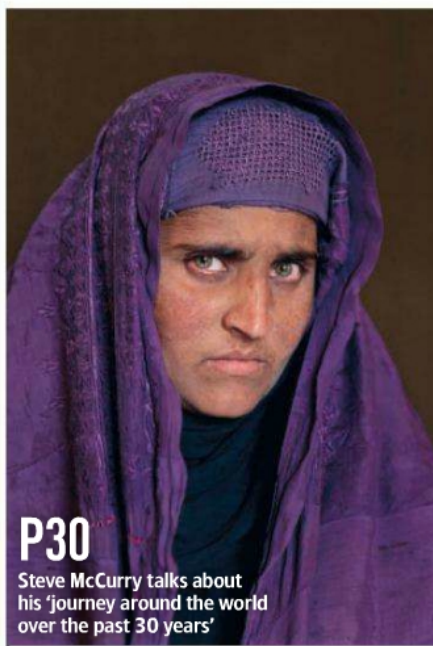
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For his latest collection of images, Charlie Waite strips the landscape back to its basic elements. Oliver Atwell gets to the core of Charlie's new perspective of arc and line

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As a huge retrospective of Steve McCurry's documentary photography is held in Rome, one of the most photographed cities in the world, Gemma Padley asks the legendary photographer about his working practices



P30

Steve McCurry talks about his 'journey around the world over the past 30 years'

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APN News

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This raid was the culmination of an extensive investigation

Police pounce on fake ink cartridges, page 7



• BIPP at centre of 'bias' claims • Organisers hit back

PHOTO CONTEST JUDGES HIT BY AWARDS CONTROVERSY

A PROFESSIONAL photography competition is at the centre of controversy after four of the judges won prizes.

The British Institute of Professional Photography (BIPP) has issued a statement to AP in a bid to fend off a growing storm of protest over the contest, first reported by the *British Journal of Photography* (BJP) and subsequently covered by the BBC News website.

Among a list of photographers accusing the BIPP of bias was one called Paul, who wrote in the comments section of the BJP's website: 'I know of no other competition where it's acceptable for judges to enter, in any capacity.'

'I certainly will not enter the BIPP competition again, and I'm very seriously considering my membership altogether.'

Another, called Dave, described the news as a 'very sad turn of events'.

'To say I am shocked would be an understatement,' he wrote.

Speaking to AP, BIPP project manager Hilary Harper confirmed that organisers are 'looking at reviewing the awards'.



The BIPP is reviewing its rules surrounding the judging for next year

But, at the time of writing, she insisted they had received just two complaints.

In a statement, the BIPP told us: 'Under current rules, members of the judging panel are not precluded from entering images for consideration, but strict procedures are in place to ensure that the judging process is open, fair and unbiased [sic].'

'In particular, no judge is permitted to sit

on the panel assessing a category in which they have submitted an image.

'All images are also placed before each judging panel without the identity of the photographer being revealed to them.'

'We cannot guarantee that entrants will be satisfied by, or agree with, their score, or the scores achieved by their contemporaries, but we do guarantee that all awarded images are fairly chosen after a fair, rigorous and lengthy judging procedure.'

Responding to the criticism, one of the judges, Stuart Wood – who won a Bronze Award in the Photojournalism section – wrote on BJP's website: 'Considering that I won three less major awards this time, than at the last awards when I was not a judge, [is] something that appears to have been conveniently overlooked.'

The contest attracted around 1,000 entries.

Photos of the judging, which took place on 19 January, were posted online by the BIPP, which said several of the judges were awarded 'Long Service' certificates this year.

SNAP SHOTS

● Nikon customers can claim back up to £100 in DSLR cashback promotions that run until 30 May 2012. The offers apply to the D3100, D5100 and D7000 models. Nikon says it must receive all valid claims by 30 June 2012. Visit www.nikon.co.uk/cashback.

● A plaque marking the spot where rock star David Bowie was photographed for the cover of a record that helped shoot him to fame 40 years ago has been unveiled in Heddon Street, London. Bowie was photographed by the late photographer Brian Ward for *The Rise and Fall of Ziggy Stardust and the Spiders from Mars* album in 1972.



SOME D800 CUSTOMERS FACE DELAYS

NIKON concedes that UK customers may have to wait to get their hands on the D800 DSLR, despite previously stating that shortages were limited to the Japanese market.

On 21 March, Nikon told AP that supply shortages would not affect the UK market, adding that it will 'work to supply the D800 to customers as quickly as possible when it goes on sale on 22 March'.

However, UK dealer Robert White told AP that the D800 may not be available until early April.

In a bid to clarify the position, Nikon released a further statement that read: 'We've seen an unprecedented level of interest in the D800, with increased

demand and orders for the new camera.

'While we are delighted that the D800 is proving incredibly popular, we recognise that this may mean increased waiting time for some customers.'

'We are working closely with our trade partners to maximise distribution and ensure customer orders are met as quickly as possible.'

Last week, we reported that the D800 would cost £2,599.99 – £200 more than Nikon originally said the camera would cost when it was unveiled in February.

Similarly, the D4 now costs £5,289.99, rather than the previously stated £4,799.99.

The price changes affect only customers in the UK and Ireland.



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Do you have a story?

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A week of photographic opportunity

PHOTO DIARY



Wednesday 11 April

EXHIBITION From the Sun's Rising by Paul Bundle, until 15 April at St John's Church Centre, Cheshire CW8 1NP. Tel: 01606 872 255. Visit www.stjohnshartford.org. **EXHIBITION** Refresh by Glyn Davies, until 19 May at Oriel Glyn Davies Gallery, Anglesey LL59 5DN. Tel: 01248 715 511. Visit www.glyndavies.com.

Thursday 12 April

EXHIBITION Our View on Making a Difference, by Rashida Magera and Hady Bayoumi, until 5 May at New Maynard Gallery, Hertfordshire AL8 6BX. Visit rashidahady.wordpress.com. **EXHIBITION** Right on Kew, photos of Kew Gardens by Tony Wallis, until 22 April at Artisan Gallery, London NW10 2BE. Tel: 0208 451 6315. Visit www.artisan80.com.

Friday 13 April

EXHIBITION ma.r.s by Thomas Ruff, until 14 April at Gagosian Gallery, London WC1X 9JD. Tel: 0207 841 9960. Visit www.gagosian.com. **EXHIBITION** Transmission: New Remote Earth Views by Dan Holdsworth, until 19 May at Brancolini Grimaldi, London W1S 4JJ. Tel: 0207 4935 721. Visit www.brancolinigrimaldi.com.

Saturday 14 April

EXHIBITION Israel's Trail by Merav Stark, until 18 April at Apthorpe Gallery, London N12 0GA. Tel: 0208 369 5454. Visit www.artsdotco.uk. **DON'T MISS** Grand National at Aintree, Liverpool L9 5AS. Tel: 0844 579 3001. Visit www.aintree.co.uk. **EXHIBITION** In the Blink of an Eye: Media and Movement, until 2 September at the National Media Museum, West Yorkshire BD1 1NQ. Tel: 0844 856 3797. Visit www.nationalmediamuseum.org.uk.

Sunday 15 April

EXHIBITION Infra by Richard Mosse, until 10 June at Open Eye Gallery, Liverpool L3 1BP. Tel: 0151 236 6768. Visit www.openeye.org.uk. **EXHIBITION** VD by Vincent Delbrouck, until 6 May at Third Floor Gallery, Cardiff, CF10 5AD. Tel: 02921 159 151. Visit www.thirdfloorgallery.com.

Monday 16 April

EXHIBITION Through Lichfield's Lens: The Polaroids, until 6 May at Nunnington Hall, North Yorkshire YO62 5UY. Tel: 01439 748 283. Visit www.nationaltrust.org.uk. **EXHIBITION** Famous in the Fifties by Daniel Farson, until 16 September at the National Portrait Gallery, London WC2H 0HE. Tel: 0207 306 0055. Visit www.npg.org.uk.

Tuesday 17 April LATEST AP ON SALE

DON'T MISS Bluebells at Glendurgan Garden, Cornwall TR11 5JZ. Tel: 01326 252 020. Visit www.nationaltrust.org.uk. **EXHIBITION** Portrait of London (from Museum of London archives), until 12 August at Wandsworth Museum, London SW18 1RX. Tel: 0208 870 6060.



© WILLIAM KLEIN/CONCRETE/PHOTO FINE ARTS LONDON

Photographer and filmmaker honoured KLEIN WINS SONY AWARDS GONG

SONY has named photographer William Klein as this year's winner of its Outstanding Contribution to Photography Award.

Klein will receive the honours at the Sony World Photography Awards ceremony in London on 26 April.

The New York-born fashion photographer

and filmmaker worked for *Vogue* magazine from 1955–65, after which he focused on filmmaking.

He returned to photography in the 1980s and won the Hasselblad Award in 1990.

Klein, now aged 83, lives in France where he continues to work.

JESSOPS ENJOYS BRISK SALES

JESSOPS CEO Trevor Moore expects the chain's latest sales results to show continued improvement.

'Our turnaround and recovery is progressing very well... In the past two months, we've probably enjoyed the highest market share we've seen in recent years...'

Much of this revival is thanks to Jessops' former chairman David Adams, who recently stepped down from the board having joined in 2007 when the chain's survival was reportedly under threat.

'David did a fantastic job, there's no two ways about it,' said Moore, who, as a

newcomer to the photo industry when he joined Jessops in 2009, received welcome advice from the chairman.

Adams – who led Jessops through a debt-for-equity restructure with bank HSBC – has handed over the reins to new chairman Martyn Everett.

Moore feels it was an ideal time for his colleague to step aside.

'The business is in a different place than it was five years ago when David parachuted in... We have a store portfolio that is relevant, a format that works and a huge online business that we didn't have.'

SNAP SHOTS

● AP Editor Damien Demolder will be giving camera-buying advice in a presentation at the Gadget Show in Birmingham on 11 April. The talk, entitled 'How to buy a new camera', will take place at noon and 3pm in the Photographic Workshop Theatre, situated in Hall 8 of the NEC. The Gadget Show will be held from 11-15 April. For ticket availability, visit www.gadgetshowlive.net.

● A photographer who has battled a mild form of cerebral palsy since birth has launched her first exhibition. Jess Norgrove, 26, from north London, opened an exhibition called *Uncovered*, in Shoreditch, east London, last month. 'My art teacher said I had a good eye because of photos I had taken of a car rusting in the sea,' Jess told the *Islington Gazette*.

● Canon says its professional EOS C300 interchangeable-lens camcorder has met standards required for BBC broadcasts. Launched in November 2011, the C300 features an 8.29-million-pixel CMOS imaging sensor and is compatible with more than 60 EF lenses.



Do you have a story?

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Advice preventing photos in buses was 'incorrect', admits TfL

TRANSPORT BOSSES BLASTED OVER BUS PHOTO BAN

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TRANSPORT officials have been criticised for banning a photographer from taking pictures on buses, or inside bus shelters.

The apparent policy was contained in a letter sent to a reader of *Buses* magazine, details of which are published in its March issue.

In the letter, Transport for London (TfL) customer service advisor Miranda Crabtree is quoted as telling the unnamed enthusiast that 'photography is recommended and acceptable' when taken from a public place.

However, Crabtree went on to say that photography is forbidden on TfL, or bus operator-owned, premises without prior permission. She added that this includes photographs taken 'inside buses' and 'bus shelters'.

In response to the furore, a TfL spokesman told AP that the advice was a mistake: 'The information given was incorrect. Clearly, we would not want to stop people taking



pictures in bus shelters or on buses.'

Dismissing the matter as a 'storm in a teacup', the spokesman said Crabtree no longer works at TfL, although her departure was not the result of the advice given.

However, the spokesman stressed that people who want to take photos on

TfL-owned bus stations, garages and bus stands, over a prolonged period, must seek prior permission from a 'bus controller' or other staff member. A 'quick snap' would be acceptable, he claimed.

TfL has pledged to write to the bus enthusiast concerned.

POLICE RAID FAKE INK WAREHOUSES

TENS of thousands of fake ink cartridges have been seized in police raids on warehouses in Turkey and Italy, printer maker Lexmark has announced.

Lexmark officials and police swooped on a warehouse in Turkey, seizing counterfeit ink cartridges made under several printer brand names. The haul of 1,000 fake Lexmark products is understood to include photo cartridges.

'This raid was the culmination of an extensive investigation of a suspect who had previously been charged with trademark counterfeiting in the Turkish court system,' said a spokesman.

Last month, Italian police raided a warehouse in Milan where almost 40,000 counterfeit Lexmark items were discovered.

'The facility was being used as a repackaging plant for building complete counterfeit cartridges of multiple brands,' added Lexmark.

The firm said that a suspect has been arrested.

Meanwhile, Lexmark is appealing for help in combating what it says is a worsening problem of 'clone toner cartridges' violating the company's patents.

Sellers, distributors and importers of potentially patent-infringing cartridges are urged to email information to clone@lexmark.com.

JESSOPS ANNOUNCES DSLR FILMMAKER VICTOR

JESSOPS has revealed the results of a competition to find the best short film captured using a DSLR camera. The prize went to a movie captured using a Canon EOS 5D Mark II.

The contest, backed by Nikon and The Mob Film Co, tasked young filmmakers to make a short movie entitled 'The Shot'.

The top prize was awarded to David Schofield for his film about a photographer who meets a girl while taking landscape photos.

David, who scooped £5,000 in Nikon gear, told AP that he shot the film using a Canon EOS 5D Mark II and Pentax lenses, attached via an adapter. He beat around 80 other entries.

Asked why he chose this particular camera, David said: 'Shooting in a harsh environment, we were able to get high-quality images... And you can shoot in really low light.'

Among the challenges was making use of a 'six-hour window' of available light, he explained.

Twenty cast and crew were involved in the movie, which was shot on the Woodhead Pass that links Manchester and Sheffield.

He said the Canon EOS 5D Mark II



proved an attractive proposition because it gave him the ability to use fast lenses.

Its size and portability also provided flexibility when shooting in a remote location.

Part of David's prize is a visit to Toronto, Canada, to meet film director Paul WS Anderson, who chaired the judging panel.

Commenting on the winning entry, Anderson said: 'This film stood head and shoulders above the rest... It combines good use of location, beautiful cinematography and very strong [acting] performances.'

To watch the entries, visit www.youtube.com/theshotjessops.

AP
THIS
WEEK
IN...

1927

SNAP SHOTS

● Virgin Media is offering one lucky AP reader the chance to win a Sony Ericsson smartphone. Entrants can enter up to ten images and the first-prize winner will receive a Sony Ericsson Xperia Arc handset that boasts an 8.1-million-pixel camera. The theme of the contest is 'Capture the Moment' and the closing date is 30 April 2012. To enter, and for full terms and conditions, visit www.amateurphotographer.co.uk/capture.

● Photographer Ilvy Njokiktjien and videographer Elles van Gelder have been named winners of the World Press Photo Multimedia Contest. The pair, from the Netherlands, won the award for *Afrikaner Blood*, a project about a camp in South Africa that teaches young white Afrikaner teenagers self-defence and how to combat a perceived black enemy. They beat more than 280 other entries for a piece that judges described as 'incredibly well crafted and nuanced'. To view the winning entry, visit www.worldpressphoto.org/multimedia-gallery/2012-multimedia-contest.



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Photo industry remembers late CEO HUNDREDS PAY TRIBUTE TO SIGMA FOUNDER

MORE than 500 friends and colleagues from the photographic industry gathered at a hotel in Tokyo to remember Sigma Corporation founder Michihiro Yamaki (pictured), who died in January.

Japanese trade publication *Pen News Weekly* carried a four-page report on the ceremony, which took place at the city's Imperial Hotel.

According to *Pen*, among those paying tribute was James L. Chung, president of the International Photographic Council, who said: 'Mr Yamaki's commitment to excellence serves as an inspiration to all those who follow in his footsteps.'

'He will always be remembered for his passion and professionalism in the photo imaging business.'

Tosh Komamura, former president of the Joint Photographic Enterprises Association International, added: 'Some 40 years ago, he was one of the leaders in a fight against the government, which had requested Japanese companies voluntarily restrict exports.'

'This meant a big blow to the industry. He always thought of the photo industry's prosperity, and acted as pioneer. We will never forget him.'

Morio Ono, president of lens rival Tamron, said: 'When our



Sigma Corporation founder Michihiro Yamaki, who died earlier this year

late chairman Takejuki Arai asked the young Yamaki to join Tamron, Mr Yamaki said he wanted to have his own business.

'Later, Mr Yamaki invited Mr Arai and me to visit his factory in Aizu. He met us at the station and took Mr Arai's hand, saying, "This has been my dream for a long time, to have you visit and see our Aizu factory."'

Michihiro's son, Kazuto – who has taken over as Sigma CEO – said his father showed leadership, idealism, humanity and vision, and was the 'driving force' behind the company's success.

Michihiro Yamaki died on 18 January 2012, aged 78.

SONY RELEASES ALPHA UPDATE

SONY has released a free firmware update designed to boost the performance and operation of its Alpha 77 and Alpha 65 SLT cameras. The company claims: 'Autofocus accuracy is now improved when focusing on scenes with wide contrast difference between objects.'

Sony says it has also improved the AF speed when using both cameras with the recently announced 500mm f/4 telephoto lens. The firmware is designed to correct vignetting, lateral aberration and distortion for six further A-mount lenses.

Firmware version 1.05 aims to improve the responsiveness of the cameras when using auto review mode. For more details visit www.sony.co.uk/support/en.



CLUBNEWS

Club news from around the country

LEICESTER AND LEICESTERSHIRE PHOTOGRAPHIC SOCIETY

The society will stage its annual exhibition at the Brite Centre, Braunstone Avenue, Leicester LE3 1LE. It will take place on 25 May (6-9pm), 26 May (10am-4pm) and 27 May (10am-4pm). Visit www.landlps.org.uk for details.

NEATH PHOTOGRAPHIC SOCIETY

The society is hosting the Hornbill Challenge photo competition for all UK-based photographers. The closing date is 31 May 2012. For details visit www.neathphotographicsociety.org.

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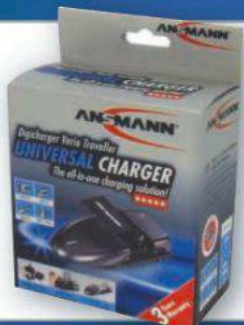
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APReview

The latest photography books, exhibitions and websites. By Oliver Atwell



© ANJA NIEDRINGHAUS



BOOK

Anja Niedringhaus At War

Hatje Cantz, hardback, £32.50, 180 pages, ISBN 978-3-7757-3232-1

YOU MAY be more familiar with Anja Niedringhaus's images than you think, as her war photography has been featured in countless news publications throughout the world. This book gives an excellent overview

of Anja's work and clearly demonstrates why she is considered such a major force in documentary photography. Her images are stark and raw, but never feel sensationalist, and they work because they are impartial. Her lens is a floating invisible eye that is simply there to observe and record silently. What's striking is that Anja's images say so much about war as a whole. It doesn't matter where the

conflict is, as the consequences are always the same. Alongside the more negative observations of war, Anja also finds the space to show the very human face of the soldiers and civilians who have been swept up in the conflict, and these are inevitably the most moving portions of the volume. This is really quite a breathtaking book.



The Great Picture: Making the World's Largest Photograph

By Lucy R Lippard

Tyler Stallings and Dawn Hassett, Hudson Hills Press, hardback, £50, 196 pages, ISBN 978-1-5559-5373-7

THERE are some photographic projects that are about far more than the final images. Sometimes the journey taken to achieve something is the whole point.

This epic project saw six photographers, 400 artists and several volunteers transform an abandoned California jet hanger into the world's largest camera obscura. The result was the world's largest photograph, an absolutely gigantic panoramic landscape of the California desert. This book documents every step of the journey, and is a fitting tribute to the sheer amount of effort that went into producing this colossal project. It's a beautifully produced volume and is well worth the price tag.



© ROSE BENJAMIN

VD by Vincent Delbrouck

Until 6 May. Third Floor Gallery, 102 Bute Street, Cardiff CF10 5AD. Tel: 02921 159 151. Website: www.thirdfloorgallery.com. Open: Wed-Sun noon-6pm. Admission free

VINCENT Delbrouck's approach to documentary imagery is very much tied up within his own personal state of mind and experiences. In his photographs of Cuba, Nepal, India and Belgium, we are presented with an almost imaginary space. It's one that essentially exists only in Vincent's head. In this way, Vincent is able to discover more about how he interacts with the world. The exhibition demonstrates a brilliantly unconventional approach to documentary image making.



© VINCENT DELBROUCK

www.psdisasters.com

PHOTOSHOP sometimes has a bit of a bad reputation in the photography community. When used in moderation, it's a wonderful digital darkroom tool that can help bring out the character of your image. When used in the hands of some people, though, Photoshop can become a tool of cruel horror. A number of the examples of Photoshop disasters on this site are terrifying, but the images really are quite funny and the observations made are both enlightening and hilarious.



CONDENSED READING

A round-up of the latest photography books on the market

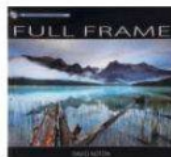
● 50 PHOTO PROJECTS by Lee Frost, £15.99

There's nothing worse than photographer's block. Sometimes you just feel like you've photographed everything and have no idea where else you can go. Well, take a look through Lee Frost's latest book and you'll soon see the possibilities are endless. It's a great read and packed full of inspiration.



● FULL FRAME by David Noton, £15.99

In his latest book, David Noton demonstrates his mastery of both landscape and travel photography. The images are excellent, but the real benefit is that David offers a lot of practical advice if you're thinking of getting out in the open air with your camera in hand.



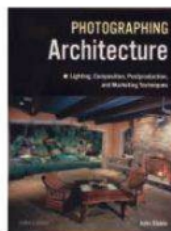
● A YEAR IN THE LIFE OF BETH CHATTO'S GARDENS by Rachel Warne and Fergus Garrett, £16.99

Beth Chatto is an award-winning gardener and in this book photographer Rachel Warne has trained her lens on the vivid foliage and flowers that dominate these beautiful spaces. Fergus Garrett's words are a perfect companion and really help to bring out the character of the images.



● PHOTOGRAPHING ARCHITECTURE by John Siskin, £24.99

This book is an attempt to help the reader get to grips with photographing both interiors and exteriors. It covers just about everything you'll need to know, but some readers may find some of the content a little simplistic. However, if you bear that in mind it's a book worth reading.



BOOK



WEBSITE



Letters

Share your views and opinions with fellow AP readers every week

LETTER OF THE WEEK

Wins a 20-roll pack of 36-exposure Fujifilm Superia ISO 200 35mm film or a Fujifilm 4GB media card*



FUJIFILM

PERPLEXED BY PINHOLES

Like me, my husband Steve is a photography fanatic, but his latest craze – pinhole cameras – is driving me round the bend. Anything lying around gets transformed into a pinhole camera, his current one being a tin that previously housed the chocolate brazil nuts he bought me last Christmas. He even pounced on a Pringles container just seconds after I'd eaten the last one.

Steve has now set up a makeshift darkroom in his tool shed where he scurries like a frightened rabbit to develop his precious pinhole prints as soon as he possibly can after shooting them. And for what? Blurry black & white images that to me are an assault on the eye. He insists he's 'keeping it real' in memory of those pioneering photographers of years ago. And there's even talk of framing a few of his pinholes for our living-room wall. When I objected with the words, 'Over my dead body!', his response – in a duff Humphrey Bogart accent – was, 'Okay, toots, if that's how you wanna play it...'

He owns both a top-notch compact and a first-rate compact system camera, so why this obsession with crawling around on all fours, talking to himself while closing one eye as he aims his pinhole job 'approximately' in the right direction? I know you AP staffers love pinholes, too, so what's the attraction? I've a fear of confined spaces, but give me pothole photography over pinhole anytime!

Mandy Smith, Northumberland

That's funny. I think the attraction is the craft and the simplicity, which I believe lots of people miss in digital photography. There's not enough doing with your hands, and not enough chemicals. You leave him alone! – Damien Demolder, Editor

FORUM POWER

Since buying a new bridge camera last year and following the appropriate forum for hints and tips from fellow photography enthusiasts, I have come to the conclusion that some manufacturers seem to portray a less-than-perfect regard to the quality and

usability of their products prior to entering the market. I believe that firmware updates should be a 'rarity' rather than the accepted norm, yet there seems to be a universal acceptance of products that have not been satisfactorily pre-production tested.

I do not notice any evidence of

Write to...

'Letters' at the usual AP address (see page 3), fax to 020 3148 8130 or email to amateurphotographer@ipcmedia.com

*Please indicate whether you would like to receive Fujifilm film or a memory card (please state type preferred) and include your full postal address

Backchat

Send your thoughts or views (about 500 words) to 'Backchat' at the usual AP address (see page 3). A fee of £50 will be paid on publication

pressure from distributors, for example, or manufacturers to halt the practice of churning out new models on an almost yearly basis, then correcting shortcomings in stages at a later date. I know the photographic industry is not unique in its approach to manufacture, and I for one prefer to buy new products after a reasonable period of production (cars, for example), but I disregarded my own philosophy on this occasion with the purchase of my camera, and it is only now acceptable after three firmware updates!

It would seem that one way to keep manufacturers in check is by applying 'forum power', as has been exhibited on the Fujifilm forum regarding the 'orbs' issue suffered by some of its cameras, and ending (hopefully) with a positive result. I have no doubt that this is a meaningful way to apply pressure collectively since manufacturers seem to keep their eyes on forums for feedback about their products. I know I am probably asking for an ideal world, but I think we should all expect better than is being offered, and perhaps a little more criticism from within the industry might be in order to the benefit the downtrodden paying public.

WF Brown, West Yorkshire

STILL GOING STRONG

To AP readers brought up on digital kit, cameras like the Pentacon Super (*Icons of Photography*, AP 31 March) must seem as though they were unearthed during an archaeological dig. That's a shame, because many of the Pentacon/Praktica range of screw-thread cameras were sturdy and truly reliable models, unlike the risky procedure of buying Russian cameras where the manufacturer's quality control was stupendously erratic. Witness AP reader Dave Swann's letter of the week in the same issue regarding the Kiev 60.

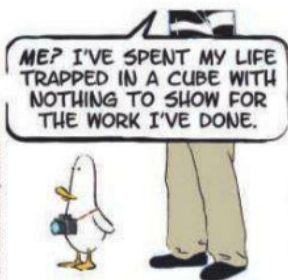
In 1985, one AP reader wrote to straight-talking AP columnist Ron Spillman in praise of his 'classic' Praktica Nova SLR bought in 1968. 'Classic?' sneered Ron. 'It's a right dog!' Having used one myself, I couldn't agree more.

But the Praktica L2 I bought in 1978 was the real deal. Its lack of a metering system didn't matter as I was bewitched by my Weston Master V lightmeter that, when used in incident mode, gave me perfect exposures on Kodak Ektachrome 64 slide film. The rather brick-like shape of my L2 was at odds with the then state-of-the-art SLRs such as the Olympus OM-1n and Pentax ME, but I didn't give a stuff. I was using an inexpensive SLR with just its standard lens and getting results on a par with any of those more high-tech models.

Prakticas have always suffered from a rather 'clunky' image, but no matter. An old Pentacon brochure I once owned said that the shutters of Praktica SLRs could be heard clicking all over the world. And the shutter of my L2 is still clicking to this day, despite having never been serviced.

Ivor Matanle gave a realistic price for the Pentacon Super with 55mm f/1.4 lens at £750. Despite the camera's rarity and

What The Duck



<http://www.whattheduck.net/>

MIST OPPORTUNITY

I was prevented from playing golf recently by an injection I had to have in my knee, but while I heeded my doctor's advice not to play, it did not stop me going to my golf club with my camera.

I left home in sunshine with blue skies but by the time I arrived the golf course was

shrouded in thick mist. A less keen photographer might have turned round and gone back home, but I thought I would take this opportunity to shoot take some pictures, for this could be the last time this year that we will experience such weather conditions. Particularly for an old man like me!

The sun did eventually come out, but I was pleased that I had got my shots in the bag before that happened. We can have sunny weather at any time, but the conditions I was able to enjoy that day come only on rare occasions. We should make the most of them whenever we can.

Keith Hughes, via email



Quite right, Keith. For photographers there is no such thing as bad weather, only different weather. And it is all interesting – Damien Demolder, Editor

appeal, a good old Praktica of the L2 or MTL5 variety can be picked up on eBay for silly money. Run a few films through and check your results, or scan them into Photoshop. Then, like many other photographers, you might marvel at how these cameras have always been underdogs to their more expensive Japanese counterparts. **Tom Cave, Tyne & Wear**

MY DREAMS FULFILLED

Compact system cameras seem to me like Marmite: either loved or hated. So may I put in a word for the lovers?

Like Mr RG Jackson (*Letters*, AP 17 March), I've been using SLRs for 40 and lots more years, and they're great. My Nikon D700 is brilliant and produces fine results from lenses old and new, and I'm not about to replace it. I have always, however, had a sneaking regard for the quiet portability of the unobtrusive Leica – and then along comes the CSC, and my dreams seem to be fulfilled. Yes, it needs a viewfinder, especially in sunlight and/or with a long lens, but for most things the live view screen is superb, especially when used with a neck strap at arm's length as a sort of vertical TLR Rolleiflex, making handholding at slow speeds normal. Lots of manual control, spot focusing, multi-pattern metering and sharp lenses: it's a stunning piece of kit.

Don't discard it too soon, Mr Jackson. I suggest you find a nice clean, second-hand Panasonic Lumix DMC-GF1 and viewfinder (both recently in AP), a leather half-case (£12 from Amazon) and bung on the peerless 20mm f/1.7 lens (or a combination of the 14mm f/2.5 and the amazing Olympus 45mm f/1.8). You'll then enjoy not only fine, portable photography but also people

stopping you in the street to look at 'that lovely old film camera'. A couple of cheap adapters and you can use your Nikon and Leica lenses, too, with bokeh and resolution to die for.

Martin Cavender, Somerset

Quite right, Martin. Too many people dismiss without trying – Damien Demolder, Editor

ART OF A DIFFERENT KIND

I never had the resources for a darkroom, although I would have loved one. I still use film occasionally, but now I have a decent digital set-up that includes Photoshop Elements, and I am very happy that I can now 'develop' and print my own pictures using relatively minor adjustments. I can even 'create' pictures that were never there! It's all 'art', but of a different kind.

I was interested, then, to read a letter recently that was sent by Edward Weston to Ansel Adams in which he writes: 'Photography as a creative expression – or what you will – must be "seeing" plus: seeing alone would mean factual recording – the illustrator of catalogues does that. The "plus" is the basis of all arguments on "What is art?"

Now I would never consider myself an artist of their calibre, but nor would I – and, I suspect, any of your readers – consider myself an 'illustrator of catalogues'. We all choose our own way of doing things and take pride in doing them as well as we can, and it doesn't do to demean others for their choice of any particular medium or manipulation. **Brian Silk, West Sussex**

I like that 'plus' bit – it means you can get away with anything – Damien Demolder, Editor

BACK CHAT

The DSLR is dead, says AP reader Mal Jones. Viva la Revolution!

IT IS nearly ten years since I took to using a digital camera, setting aside my beloved and trustworthy Minolta 9000 for an Olympus Camedia C-5060 Wide. A forthcoming trip to the high mountains of Borneo and the rainforest of Malaysia prompted me to travel light, so the Olympus at the time seemed to tick several boxes. Its articulated screen would be a very useful tool in hot and humid situations: on a similar visit a few years earlier, taking pictures with an SLR proved difficult, as each time the viewfinder touched my eye, a mass of condensation engulfed my pupil. The day was saved by the infrared focusing system on the Minolta flashgun.

The Olympus has been a useful servant since then, but as I approach retirement age I am regaining my enthusiasm for experimental picture-taking, rather than simply documenting holidays and work-day activities. So what to buy next? Having thought long and hard about a DSLR for several years now, a hike in the Brecon Beacons last summer showed me that travelling light still has its virtues. The fact is, the modern DSLR is a weighty beast and, added to the selection of other equipment one may feel inclined to carry, it broaches the need for a sherpa or two to help with the load. It has dawned on me, then, that the current move by manufacturers towards compact system cameras looks to be a real alternative.

There are no clear disadvantages: CSCs are being made with higher resolutions, faster shutter speeds and better burst rates than certain current DSLRs, and include broadcast-quality HD video and a growing range of effects and peripherals. To me, that makes them class leaders.

The SLR revolution came about with the invention of the pentaprism and flip-up mirror, which enabled a live view of the scene. But whether purists like it or not, this has been superseded by the electronic viewfinder, which is now sufficiently sophisticated (in the Sony NEX-7) to bring to an end the era of the DSLR. Consider an EVF of the future, which may resolve more detail than the human eye can possibly perceive and thus enable a whole new variety of on-screen information to be displayed. An EVF that could perhaps be conveniently switched from colour to black & white, from infrared to ultra-low light and night vision. For me this is the future of internal viewfinders, with no need for the cumbersome pentaprism and noisy mirrors of a DSLR.

It probably won't be long before one of the big new innovators in the camera world, such as Sony, Samsung or Panasonic, takes the obvious step of developing a full-frame professional CSC model. Then perhaps it will be obvious to all that the funeral pyre is being lit for the DSLR dinosaur. Think how much easier life would be for the serious amateur or professional news reporter with a pocketable camera, rather than having to struggle with the excessive size and weight of the modern DSLR with its bulging battery packs and peripherals.

The time is near, I fear. The revolution has started. There is only one way to go.



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PHOTO INSIGHT



ANDREW SANDERSON

A renowned photographer, tutor, author and Ilford Master Printer, Andrew Sanderson offers practical tips on working with film and traditional darkroom techniques

Andrew Sanderson explains how he captured this playful shot of a young boy on a vintage steam train

AROUND ten years ago, my wife and I took our three young children on a vintage steam-train journey, travelling from Sheringham to Holt in north Norfolk. Each child was convinced they were about to travel on Thomas the Tank Engine, so it was a really magical day for them.

As we sat on board the train in the station, I looked across at another train that had pulled up next to us. I could see the steam drifting across from the engine and decided that I'd take a shot looking between the carriages. I managed to take a few frames when suddenly a young boy popped his head out of the other train. I had a split second to take the shot before he was gone. In the end, I had just one frame of the incident – the one here.

I'm the kind of photographer who, even on days out with the family, will always have a camera hanging around my neck. I try to carry one all the time, although the model will tend to vary. Depending on what I'm interested in at the time, it can range from medium format to 35mm.

At the time this image was taken, I was carrying around an Olympus Pen EE-2, which is a half-frame camera. What this means is that each shot is only half the frame size of what it would be in a standard 35mm camera, so you end up with a roll of film that contains 72 shots. The consequence of this from a printing perspective is that your prints are twice as grainy. To get a 10x8in print from a 35mm negative you have to enlarge it eight times, but as this was a half-frame image I had to enlarge it 16 times. Therefore, the grain is significantly more pronounced. The lens is incredibly sharp on the Pen EE-2, so I still had an incredibly sharp image – it was just a little grittier.

The EE-2 is a fully automatic camera, so the only thing I really had control over was the framing. It's a fixed-focus model with a 28mm lens, and if you're using a fast film the aperture closes down to something like f/8 or f/11 for most situations. This gives just the right amount of depth of field for most situations. The EE-2 was a camera that was aimed much more at the snapshot market in the 1950s and '60s. It has a simple wheel at the back that is used to wind it on, then you press the shutter and you've got the shot. It's great for something



like street photography. I suppose the real drawback about using one of these now is that you have to process the film yourself because most labs won't touch half-frame images – the machines they use tend to get a little confused when looking for the gaps between shots.

Using a camera like the EE-2 is very

different from using something like a medium-format model. When I'm shooting medium format, I'm a lot more economical with my shots. I take my time and consider exactly what it is I want to do. When shooting half-frame, I find that I don't walk away from shots. I take any shot that grabs my interest and I find that quite liberating.



If you would like to read more about paper negatives, Andrew's book *Paper Negative Photography* is available from www.blurb.com, price £15



The printing process for this particular image was tricky, to say the least. I had to try to draw out details in the darker tones, in the highlights of the steam and in the child's face. There was a lot of dodging and burning involved, and it's difficult to do this and then make it look as though it hasn't been done. If it's not carried out

properly, you could well end up with a lot of strange-looking overlapping tones and heavily burnt-in areas.

I needed to bring as much information out of the negative as I could without it appearing heavy-handed. It's a skill I have developed over the years and there's a lot of time and effort involved. Learning

how to do the hand shapes and how to cut out exactly the right shapes to mask the necessary areas of the shots is a lengthy process. On top of that, I had to work out exactly the right exposure for the negative. It took me half a day to produce this print, but actually that's half a day plus 30 years' experience. **AP**

Andrew Sanderson
was talking to
Oliver Atwell

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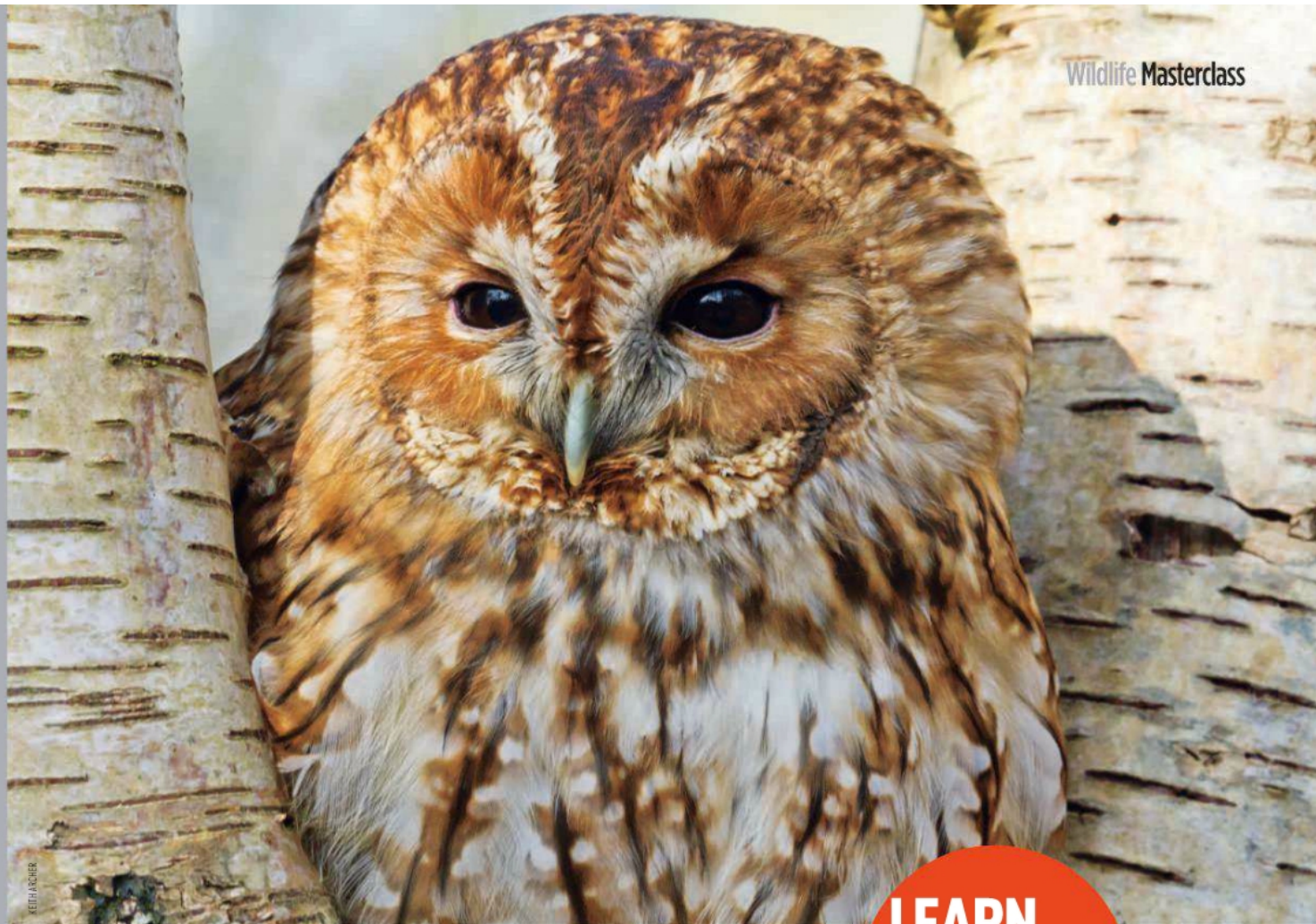
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Wildlife

The Amateur Photographer Masterclass with **Andy Rouse**

Four AP readers join top wildlife photographer **Andy Rouse** at Surrey's **British Wildlife Centre** to learn how to take great owl portraits. **Oliver Atwell** joins them

BIRDS have always been a source of fascination for photographers. In fact, photography has done much to assist ornithologists in their mission to understand how birds interact with the world and each other. We've featured many bird photographs in AP, but the one species that seems to pop up more than others is owls.

'Owls have an ability to connect with you through their eyes,' says master wildlife photographer Andy Rouse. 'They're really beautiful subjects. I enjoy the mystery of them. You never quite know what they're thinking or what it is they're looking at. They're amazingly ponderous creatures. They can be very still one minute and then suddenly explode into action the next. I'm particularly fond of the short-eared owl. They're a real buzz for me.'

Today's *Masterclass* finds four readers learning from Andy exactly how to produce effective owl portraits. The location is the excellently equipped British Wildlife Centre in Surrey, a location that houses many animals, including various species of owl. Joining the group will be headkeeper Matt Binstead, who will be helping to get the owls into position. The readers will be photographing tawny, short-eared, long-eared and barn owls. When working with such appealing creatures, it can be tempting to assume that all you need is an owl to make a successful shot. However, according to Andy, that's not the case.

'When I'm teaching on workshops, I'm always amazed by how many people start taking images straight away,' says Andy. 'I have to go over and tell them to get rid

of their images and start again. You have to take your time and consider the scene that's in front of you. Today I'm going to sit down with you during each set-up and show you how I would approach the shot. I'll explain each time why I would take a certain approach. You can take these sorts of photographs at a lot of centres throughout the UK, but the birds probably won't be quite as well trained as the ones we'll be working with today. Another advantage is that we also have access to long-eared and short-eared owls, which are two species that you don't see very often.'

Finally, Andy is eager to raise an issue that he feels very strongly about. 'The one thing that I want to make absolutely clear to everyone is that these are captive owls,' says Andy. 'If you label your images as being pictures of wild owls, I'm going to be very unhappy. These are captive birds, so you must be honest and state that these images were shot in controlled conditions. You must never lie about it. You have an obligation to be ethical about your photography.'



Your AP Master...

Andy Rouse



Andy Rouse is one of the world's most prominent wildlife photographers and is a passionate conservationist. A professional photographer for more than ten years, he has a dozen books to his name and regularly appears on TV. He has also won multiple wildlife photography awards, including nine awards in the past seven years in the BBC Wildlife Photographer of the Year competition. To see more of his work visit www.andyrouse.co.uk or read his blog at www.andyrouse.co.uk/blog.asp.

The AP readers...

Keith Archer



Keith retired about a year ago and spends his spare time honing his interest in wildlife photography. He uses a Canon EOS 7D. 'It's been a fun day,' he says. 'I've learned more than I thought possible.'

Tony Meredith



Tony is a keen wildlife photographer, who has some experience of shooting at the British Wildlife Centre. He uses a Canon EOS-1D Mark IIN and a Canon EOS-1Ds. 'Andy is incredibly knowledgeable about his subjects, which is of course very important,' he says. 'But more than that, it's incredibly inspiring.'

Ray Seagrove



Ray has been interested in photography for many years and says that his passion lies with wildlife imagery. His current kit includes a Canon EOS-1D Mark III and a Canon EOS-1Ds Mark II. 'Learning from a world-renowned expert has been fantastic,' he says. 'I'm going to take so much away from today.'

Richard Tinsley



Richard has an all-round love of photography, but particularly loves getting close to nature. He uses a Canon EOS 7D. 'It's been great,' he says. 'The things that Andy has shown us today will help to improve my image-making no end.'

SETTING THE SCENE

THE KEY to a successful owl portfolio is variety. When working with several species of owl, it is important to ensure there is a good range of environments and a level of believability.

'We're obviously not going to be photographing every owl on the same perch and in the same location' says Andy. 'If we did, then people would look at the images and wonder how we managed to get a tawny owl, a short-eared owl and a barn owl all in the same spot. It won't be believable and the illusion of your images will be shattered.'

Andy says that each owl should be perched in the same way as it would be in the wild. 'You wouldn't see a short-eared owl perched in a conifer in a forest,' says Andy. 'I've seen some photographers take pictures with no regards for the owl's natural habitat. You have a responsibility to understand the owl, so do your research before you take your shots. You can then produce your shots without fear of looking amateurish. It's not enough just to take a pretty picture – there has to be a context that is honest and knowledgeable.'

LENS AND COMPOSITION

ANDY explains the best lens to use when taking owl portraits. 'A lot of people tend to shoot with a 300mm lens,' he says. 'With a lens like that you can get quite close in to the subject. For various reasons I don't like to get physically close to the owl. There's always the fear that being so close can in some ways affect the birds' behaviour and posture, so a 300mm or a 70-200mm lens with a 4x converter is ideal. A particular favourite of mine is the Nikon 28-300mm optic. I use this a lot because it gives a great scope of coverage. It's a lens that gives you a lot of flexibility.'

The choice of lens will also affect how much the background will interfere with your subject. 'A good background in this situation would be at least 30-40ft away,' says Andy. 'This means that with a relatively shallow depth of field, such as f/5.6 [depending on your lens], your subject is definitely going to be the owl. If you go any higher than that, you'll start getting the background coming into your shot, which will distract the viewer and ruin the photograph. Also, ensure that

your background is not too busy and complements your subject. Be aware of subtle distractions, such as patches of sky or white objects. While these things can be removed in post-production, there's nothing better than getting it right in-camera first time round.'

When taking shots of subjects such as owls, Andy suggests that it's beneficial to make sure the subject is not dominating the entire frame.

'If you take a full-frame portrait image where the subject is taking up the whole shot, then it's very difficult to go back,' says Andy. 'It's no good taking an image like that and then realising it would have looked better as a habitat shot. When I shoot, I always think, "Will this look good on my wall?" If I were to put a full-frame shot on my wall, I'd get bored of it within a day because it would have told me everything about that subject. A more atmospheric image that contains the environment gives much more scope. Plus, if you really want your full-frame image, then you can always crop it down. Keep your options open.'



Keith has ensured that the background is out of focus in order to make the subject stand out

KEITH ARCHER

LIGHT AND FOCUS

LIGHT is the most crucial element to any successful photograph, and Andy has some tips for our attendees.

'The most interesting light is sidelight, so you need to position yourself in such a way that the light is hitting your subject from an appealing angle,' says Andy. 'The most boring light in the world is when the light is directly behind you, so that it's falling onto your subject flat on. Sidelight will create a nice shadow on your subject and provide some definition – basically, the owl will be more three-dimensional. It creates a mood and it makes the subject look wild rather than posed.'

The most important focal point when shooting a live subject is the eyes, and Andy points out that your camera's AF function can help with this.

'If you have a species such as a long-eared owl, you really want the eyes in focus because they're incredibly beautiful,' says Andy. 'You should set up your camera so that it's showing you a single focusing point only [consult your camera's manual for this]. Never light up all the points and rely on the camera because the camera doesn't know what you want – you have to tell it. Make sure you familiarise yourself with this function, otherwise you may find that you're fiddling with your camera while the owl is doing somersaults in the air! Also, don't rely on the centre focusing point otherwise you're going to have to recompose your image to fit around that.'

Using strong natural light, Tony has given his subject a more three-dimensional feel



TONY MERRITT

Richard has used the grass as a natural framing device for this owl



GETTING DOWN LOW

WHILE it's rewarding to produce images of owls that are conventional, it is also worth trying something a little different.

'Shooting at a low angle and using the grass to frame your subject can give you some fantastic shots that tell a story,' says Andy. 'In this case we're shooting right into the light using the last 20 minutes of sunlight. All we need to do is boost the Levels slightly in post-production to give it a little more contrast.'

Shots like these aren't typical of the images you see of owls but, as Andy says, that's their appeal.

'I've done a few shots like this,' says Andy. 'I sometimes use backlighting when taking pictures of flying subjects. I'm not sure why people don't use it more. For creative images it's a real godsend as it adds a real mood.'

RICHARD JENSEN



'The background is nicely out of focus, suggesting, rather than forcing, the impression of farmland and hedgerows'



The British Wildlife Centre

Location

British Wildlife Centre, Eastbourne Road (A22), Newchapel, Lingfield, Surrey RH7 6LF. Tel: 01342 834 658. Email: info@britishwildlifecentre.co.uk. Website: www.britishwildlifecentre.co.uk.

The BWC offers the opportunity to photograph animals living in settings that reflect their natural environments. Much of the area is outdoors, although there are plenty of undercover areas. There is a lot to see at any time of the year and most animals can be seen whatever the weather.

Opening Times

The British Wildlife Centre is open every weekend and public holiday from March to the end of October and during school holidays. Opening times are 10am-5pm. Last admission is 4pm. Holiday opening dates: 31 March-15 April; 2 June-10 June; 21 July-3 September; 27 October-4 November; 27 December-6 January 2013.

Admission Charges

Adult £10.50, Senior £9.50, Child (3-15) £7.60, Family (2 adults and 2 children) £33, Children under 3 free, Essential carers free

Andy Rouse takes a look at a small selection of our readers' *Masterclass* owl images and offers some practical advice

Ray Seagrove

◆ **'AS HE** has shot this image as a wide composition, Ray has the option to crop this into many different formats,' says Andy. 'The focus is spot-on and the background is nicely out of focus, suggesting, rather than forcing, the impression of farmland and hedgerows. My only criticism really is one of post-processing. I would have liked to have seen a slightly darker yet more saturated image to reflect the tone of the late light.'

Richard Tinsley

◆ **'WE DIDN'T** really cover photographing birds in flight on the day, simply because this has been done in the pages of *Masterclass* before,' says Andy. 'However, we did take half an hour to have a go, and I am pleased that Richard has submitted this image. The shutter speed is perfect as the action is frozen, while the focus is right on the eyes and the composition is good. The only thing I would change for a more commercial image is to pick an image with the wings up. However, the bird was flying fast so Richard might not have had the chance to get more pictures.'





KEITH ARCHER

Keith Archer

◆ **THIS** is a nicely lit shot and the focus on the owl is good,' says Andy. 'I have a few suggestions, though. The composition needs to be corrected slightly to get the owl looking into the frame, with more of the owl on the right and space on the left. This



OLIVER ADWELL

can be achieved by cropping the image. Also, I always feel that white backgrounds, as we unfortunately had that morning, really create problems for anyone's photography. The only thing that can be done in such a situation is to shoot against a diffuse background, which I know was behind the owl to the right.'

Tony Meredith

◆ **TONY** has produced a good exposure here and the focus is right on the eye,' says Andy. 'My only concerns are the space and positioning. The image has been cropped too tightly, meaning there is not enough space around the owl. In an ideal world there would be more of the environment, with the owl placed to the right of the frame so that it's looking into the image.'



TONY MEREDITH

Would you like to take part?

EVERY month we invite three to five AP readers to join one of our four experts on a free assignment over the course of a day, with food and refreshments provided. The experts are **Tom Mackie** (landscapes), **Cathal McNaughton** (documentary and photo essays), **Annabel Williams** (location portraiture) and **Andy Rouse** (wildlife). Our next confirmed *Masterclass* will

be with Annabel Williams on 3 May. If you would like to take part, visit www.amateurphotographer.co.uk/masterclass for details of how to apply. Please remember to state which *Masterclass* you would like to attend and make sure you include your name, address, email address, daytime telephone number, some words about your work and three or four of your images.

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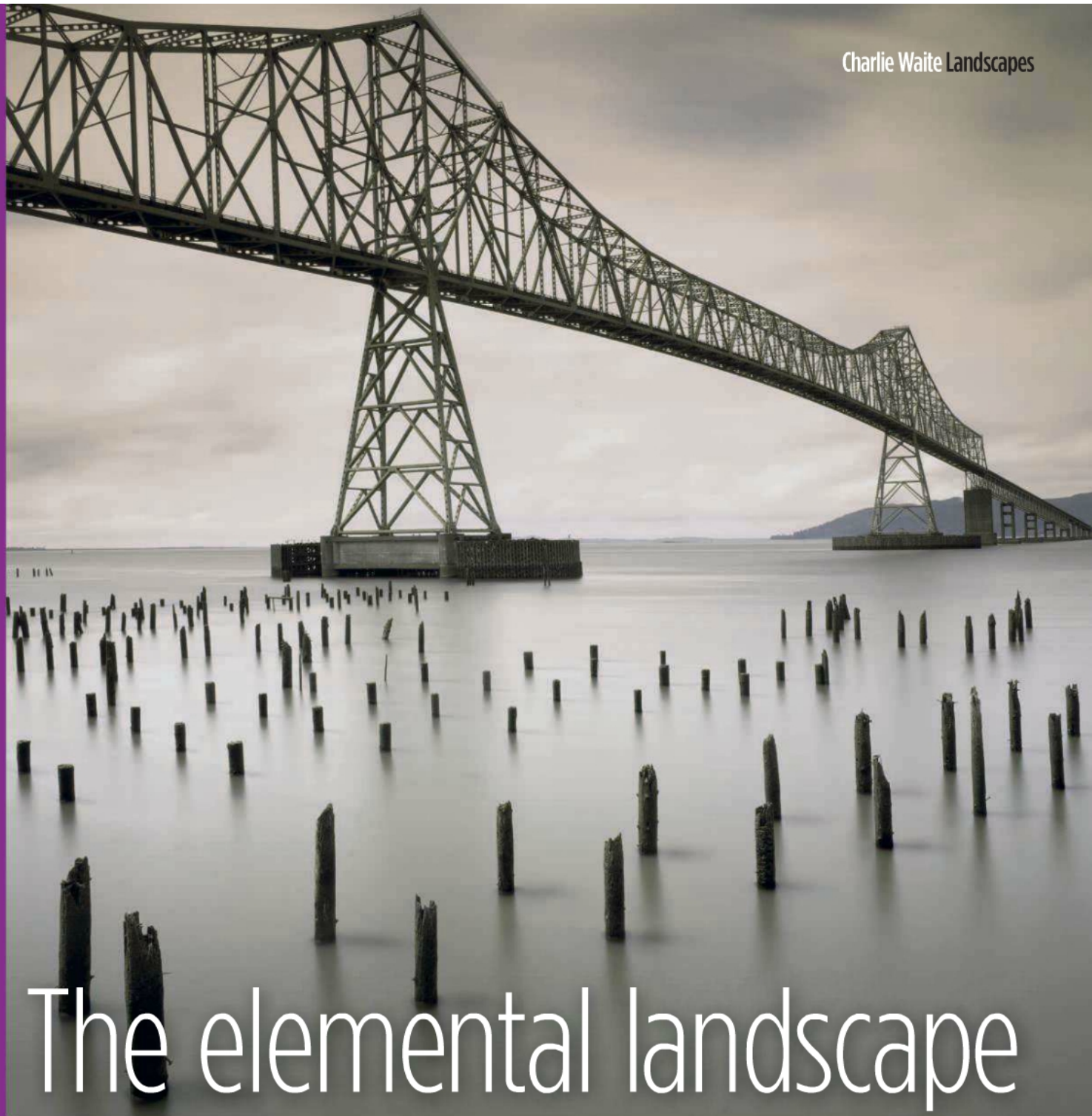


Ellie Harrison



London
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The elemental landscape

For his latest collection of images, **Charlie Waite** strips the landscape back to its basic elements. **Oliver Atwell** gets to the core of Charlie's new perspective of arc and line

CHARLIE Waite is regarded as one of the most influential living landscape photographers in the UK. His sweeping images have graced the walls of countless galleries across the world, and his relentless promotion of photography as a more-than-worthy art form has inspired many fresh-faced photographers to pick up their cameras and get out into the landscape. Not only that, but following many books and exhibitions, Charlie has set up the Take a View Landscape Photographer of the Year competition, an event that is open to photographers of all ages.

So where does someone like Charlie go

when he already done so much within the landscape genre? Charlie's preoccupation throughout much of his imagery has been to explore the landscape through the interaction of light and form. In many ways this simple idea hints at the approach he has taken in his latest publication, *Arc & Line*, which we reviewed in AP 4 February.

Charlie's latest collection is notable for its distinct theme – what happens when you break down the landscape and environment (both man-made and natural) into its most basic components. Charlie's images, much as they have always been, are a simple meditation of the forms we so easily take for

granted in the world that surrounds us.

'In the past, the majority of my books have been commissioned by a publisher,' says Charlie. 'The theme was largely defined, and although I was wholly responsible for making the images, the subject choice and final image choice necessarily involved others. For this project, the concept, realisation and the decisions about how the resulting work should be presented were very much mine. Although this gave me a greater level of freedom, it also added responsibility and increased levels of anxiety. We all hope the things that are dear to us are well received.'



Astoria Bridge, Oregon, USA. Charlie looked at both man-made and natural structures for this latest project



'I think it's important not to get too caught up in the gear. It's all about the resulting photograph'

Part of this project's genesis came from Charlie's desire to keep exploring and developing his photographic style. When his books *Landscapes in Britain* and *Landscapes in France* were published in the 1980s, they helped to influence a generation of photographers who followed. The square format and simple lines, applied to subjects usually seen in a more traditional way, were instantly recognisable.

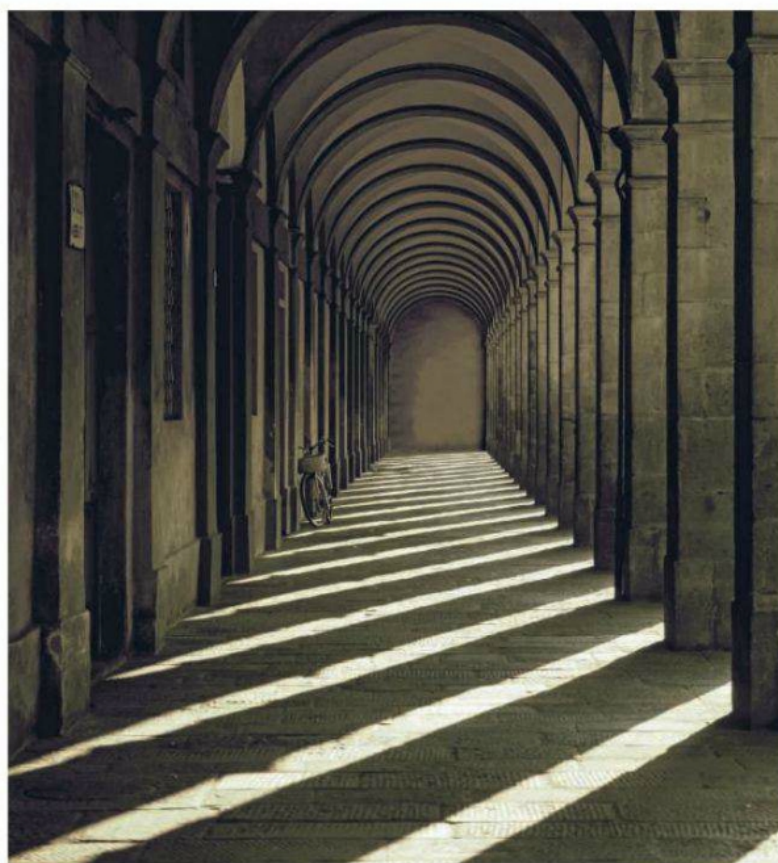
'Back then, all my images were taken using a Hasselblad,' says Charlie. 'Times have moved on now and while I'm still shooting some images on film, I'm also using a variety of digital cameras – Canon and Panasonic primarily. However, I think it's important not to get too caught up in the gear. It's all about the resulting photograph. I still think it's important to make the image in-camera and I'm not an advocate of heavy post-processing within my own work.'

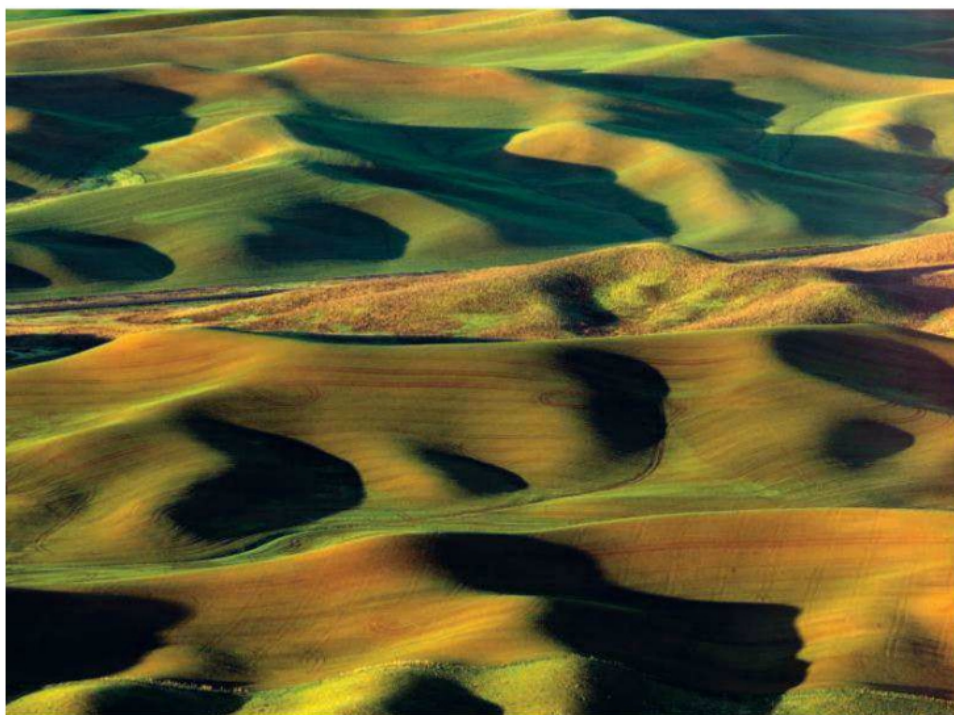
NATURAL AND MAN-MADE

Charlie's current work, in some part, takes the time to step away from the grand landscapes that he has become known for to explore the subtle intricate interplay of lines and hemispherical forms within architecture found in locations such

Above: Safi, Morocco. The clean and precise nature of architecture fascinates Charlie

Right: Lucca, Tuscany, Italy. Light and shadows became crucial elements in Charlie's observations





Above: Palouse, Washington, USA. Natural formations reveal an abundance of fascinating shapes

Left: Ubari, Libya. Charlie felt able to work comfortably in both black & white and colour in *Arc & Line*

as Namibia, Italy, Libya and, of course, several areas in the UK. While Charlie has photographed architecture before, never has it been so explicitly present.

'I've recently been drawn towards arrangements that reveal and explore the precision and exactness of things in both rural and man-made settings,' says Charlie. 'I'm really interested in simple architectural details, which are as expressive as any grand, complex and multi-layered surface. The arc and line can be found in both contemporary and classical architecture. They're beautifully exemplified in the primitive rock paintings of North Africa, in 14th century cathedral cloisters and in the Moorish mosques of Andalusia, Spain.'

Charlie admits that this perspective on photography had previously remained hidden to him due to his affection for more traditional approaches to landscape imagery.

'I think it's important to note now that both approaches – natural and architectural – can inform and inspire one another,' says Charlie. 'That should be apparent from the fact that both my images of architecture and natural forms sit side by side within the book. The challenge when putting together these images was to ensure that there was no looseness with regard to the designs that I was observing – that applies to both architecture and landscape locations that I was shooting. I wanted the interactions of form to be clean and precise. I also wanted to ensure that there was a balance between the interactions of the lines and curves. I didn't want to give precedence to either element.'

While architecture and other man-made objects do form a bulk of the *Arc & Line* collection, there are also the natural landscapes that Charlie is famous for.

'The landscape is still as fascinating and absorbing to me as it was the first time I picked up a camera,' says Charlie. 'There's always something to enchant and tantalise me. The term "landscape" encompasses everything from micro landscapes of moss- and lichen-covered boulders, to snow-capped mountains in exotic locations, as well as the architecture I've mentioned. What's particularly interesting about the natural scenes in my current work is that man's impact is quite evident if you look closely enough. Even our wildest fells have been grazed by sheep that have been introduced by man. Arcs and lines seem to provide a balance within our world and once you begin to look for them, you can appreciate their significance.'

COLOUR AND LIGHT

A major element that is likely to strike viewers of Charlie's latest project is his use of both black & white and colour. The images are divided into two sections, the first of which finds Charlie working in monochrome. Eventually these black & white shots give way to a series of vivid colours.

'As many people know, I am pretty evangelical about landscape photography and feel that the process of making a photograph is very important to me and to my emotional wellbeing,' says Charlie. 'When I previsualise what I want to achieve, the decision about whether the result will be in colour or black & white generally makes itself. There has been a tendency for some to say that for a photograph to classify as "fine art" it needs to be black & white, but for me it simply comes down to what works.'

The strong presence of light has always been a powerful and important subject within Charlie's images, and the shots taken for *Arc & Line* are no different.

'Light is the most important element in any landscape photograph,' says Charlie. 'It sets the mood, dictates the character of the shadows, and affects the colours and tonal relationships contained within your image. With experience you acquire a better understanding of weather and light so you can almost predict what will happen.'

With these images, Charlie has employed both light and shadows to emphasise and explore the delicate interplay of shapes. This is particularly true with the architectural shots, where the defined forms cast strong shadows and serve to either mask or draw attention to the arcs and lines.

'These images are very much about the shape and mood,' says Charlie. 'The light helps to sculpt these scenes and present them as clean graphic forms. At the end of the day that's what everyone should be seeing when they look through their viewfinder: a basic series of interactions between shapes.'

AP

Arc & Line is available from www.charliewaite.com/store, priced £30. There is also a signed, limited-edition boxed set that comes with a signed print of the cover image, priced £187.50



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McCurry: a life in photography



As a huge retrospective of **Steve McCurry's** documentary photography continues in Rome, **Gemma Padley** asks the legendary photographer about his working practices

OF ALL the places you have ever photographed, could you pick a favourite? Perhaps you have a shortlist of a few locations you remember with fond memories. For Steve McCurry, a longstanding photographer for *National Geographic* magazine and member of Magnum Photos, his list stretches to dozens of destinations all over the world. A life spent recording conflicts, uprisings, major events and the lives of ordinary people has led him to build a phenomenal archive of

images that explore, through his eyes, what life is like for people in countries across the world. From India, China and Japan, to Cuba, Thailand and Afghanistan, to name just a few, Steve has documented the people, places and cultures in some of the world's most deadly and beautiful countries.

Steve's most recent undertaking saw him work closely with Epson to produce a powerful series of exhibition prints currently on display at the Museo d'Arte Contemporanea in Italy. The exhibition

features more than 200 prints from across Steve's 30-year career as a photojournalist and documentary photographer, and is a collaboration between Steve and curator Fabio Novembre.

Last month, Epson invited AP to a special private viewing of the exhibition in Rome, where we had the opportunity to talk to Steve personally and ask him not only about the background to the exhibition and how he produced the prints, but also to delve a little deeper into his working methods, to gain an insight into his photographic approach, and to try to uncover what goes through his mind when he takes a picture.

'The exhibition is a celebration of my journey around the world over the past 30 years,' says Steve. 'Seeing the images printed and presented in this way is an incredible feeling. A lot of work went into producing these images – 30 years' worth, in fact!'

As well as many of Steve's most famous images, such as his powerful portrait, 'Afghan Girl', which appeared on the cover of *National Geographic* in 1985, there are more recent photographs from 9/11 on display, and images from Steve's 'last roll of Kodachrome' project with Kodak. A number of the images in the exhibition were taken in Italy and are a tribute to a country Steve has photographed many times. There are also images from Burma, India and Japan. A mixture of traditional



‘This is a celebration of my journey around the world over the past 30 years. A lot of work went into producing these images’

and environmental portraits abound, as do landscapes, bustling street scenes and ordinary people, captured at a moment when the everyday becomes miraculous.

STEVE'S JOURNEY WITH HIS CAMERA

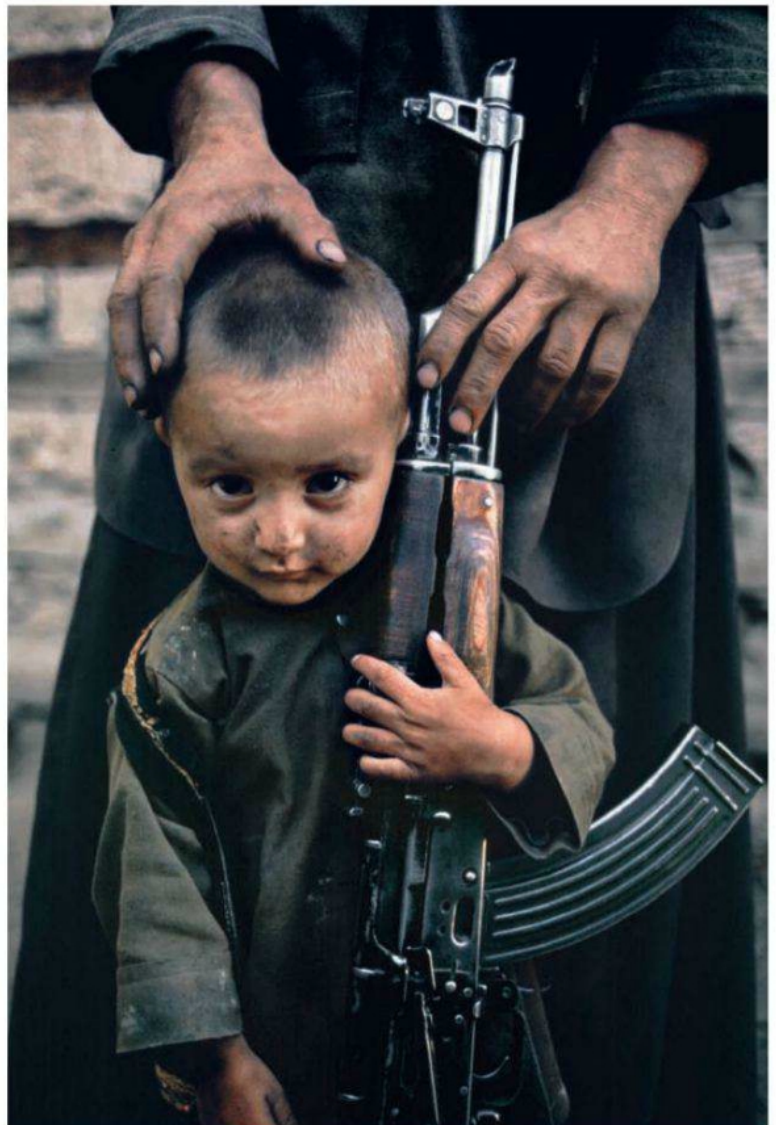
While Steve is resident in New York, and has photographed across the world, he has visited Italy many times to photograph in its cities, including Venice, Naples and Rome, and on the island of Sicily. ‘Whether you are a photographer or traveller, it’s impossible not to be in awe of somewhere like Venice or Rome,’ he says. ‘There is something about the wealth of art, history, architecture, culture and the Italian passion for life that is so enticing.

‘Venice has to be one of the great cities of the world: it is beautiful



Above: Ahmadi oil fields, Kuwait, 1991

Left: Procession of nuns, Burma, 1994



Right: Kabul, Afghanistan, 1992

ALL PICTURES © STEVE MCCURRY

and sublime. To try to capture that in a photograph is no easy task. It can be a great challenge, especially since cities such as Venice and Rome have been photographed countless times before. It's about going beyond the tourist perspective in an attempt to capture what a place means to you.'

One of the most difficult aspects for Steve is that many of the most popular tourist places are crowded with people, so it isn't always easy to get a 'clean shot.' While you can do your best to frame your scene to avoid passers-by, there are inevitably times when all you can do is move on and try to find an alternative, 'cleaner' viewpoint.

'Photographing in places where there are lots of people can be a frustrating experience, and there isn't always an easy solution,' says Steve. 'If I am in a situation like that, I'll try to isolate something among the crowd – perhaps a couple sitting together on a bench, or a person sleeping or reading in a corner. It's about being observant and pushing yourself to discover things. Sometimes things will present themselves to you when you least expect it.'

PHOTOGRAPHIC APPROACH

Light, the 'right' moment, storytelling and composition are all important components, says Steve. These are things that will be going through his mind as he is taking a picture. Steve prefers to take candid images and won't approach people directly, he explains – for him, it is about capturing images that are natural.

'As you're walking along and tune in your eye to what's happening around you, you'll start to notice moments happening,' he says. 'If you ask the person whether you can take their picture, it becomes unnatural. That said, the most important thing is to respect people's privacy. And if people don't want to be photographed, move on.'

How does Steve know when to take the picture and what does he look for? 'In the five seconds before I take a picture, there is a recognition that the scene is visually interesting or maybe the event itself is interesting,' he explains. 'You anticipate what might happen, and can see things coming together. I try to imagine what I might want to look for before I arrive at a place – I do a lot of preparation, but inevitably it's different when you're there. It's about trying to shoot the best picture you can. Find a subject you are passionate about,' he adds. 'You'll make better pictures if you believe in the stories and things you're photographing.'

When documenting traumatic events, Steve explains that it is crucial to find a way to prevent your emotions from stopping you taking the picture. 'I always take the picture,' he says. 'You have to think about recording the situation; you don't want to become paralysed in an emotional situation, so in that sense you have to be a little detached from what's going on, otherwise you could become immobilised.'

USE OF LIGHT

Integral to Steve's images is the interplay of light and subject. In many of his



Above: Venice, Italy, 2011



Right: Fishermen at Weligama, Sri Lanka, 1995

photographs, light and shadow become almost like additional characters in the scene. There is a real potency to many of his images in which carefully balanced light brings out subtle nuances of colour and tone. Favouring flat and soft light, Steve avoids extremely bright conditions.

'In my experience, high-contrast light on a bright sunny day doesn't work so well when shooting in colour,' he says. 'There are often problems with deep shadows and strong highlights, and the camera can find it difficult to handle both extremes. Also, people tend to squint, which isn't great for portrait images. I may try to find a shady side of the street – somewhere that is not so bright to photograph if I find myself in a situation like this,' he adds.

CONVEYING A STORY

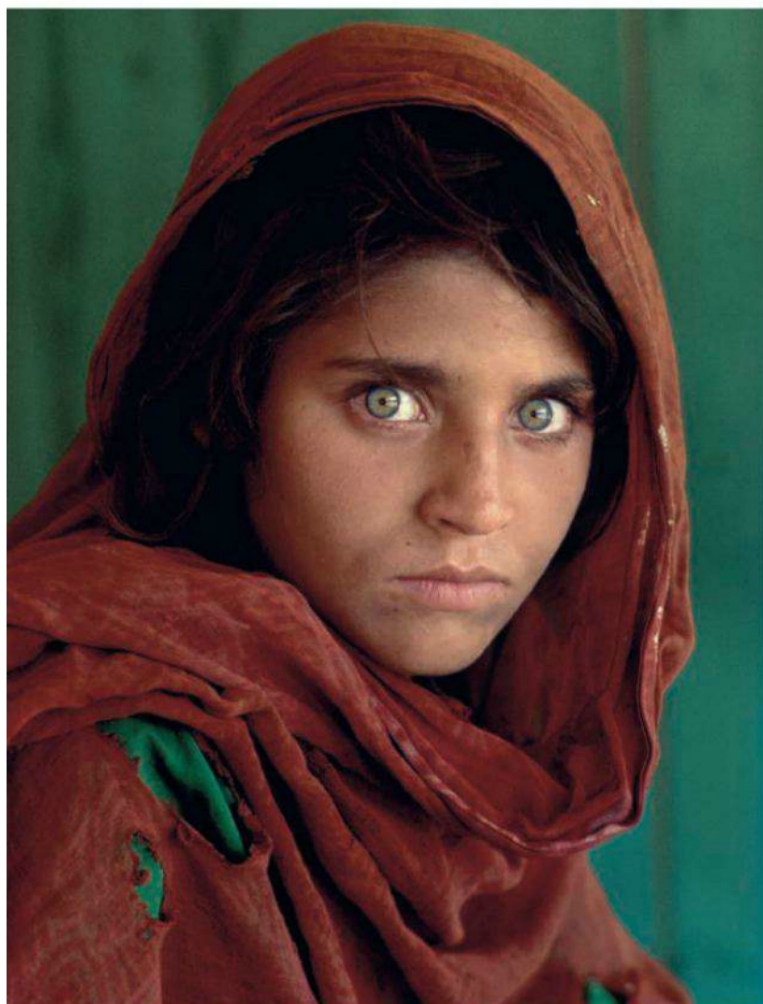
'I have a curiosity about life,' adds Steve. 'To me, it's about telling stories in a simple, direct way – to communicate and capture the essence of a person or a place. "Afghan Girl" is such a simple image, but it has somehow captured people's imaginations.'

With regard to changes in the way we take pictures, Steve views them in a positive light. 'Amateur [news] footage or images can tell another side of the story, but this doesn't replace mainstream journalism,' he says. 'We can now tell stories more effectively and quickly than ever before. An individual can get his or her story out to the world instantly. There has been a significant shift in the way we produce images, but this is a great opportunity to produce even more powerful stories.' **AP**

Right: 9/11, New York City, USA, 2001

Below: Afghan girl, Sharbat Gula, Pakistan, 1984

Exhibition:
Steve McCurry,
until 29 April at
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'The colours are true to what I saw when I took the picture' THE EXHIBITION AND EPSON

MANY of Steve's images were printed in his New York studio on Epson Premium Luster Photo Paper using a Stylus Pro 9900 printer. Fifty larger images (at 200x134cm and 280x186cm) were printed in Italy by Epson using a Stylus Pro 11880, with the support of the fine-art printing laboratory Berné Stampe d'Arte and the supervision of Steve.

Steve has had a long association with Epson. When printing the images, Steve and Epson spent many months painstakingly studying proofs, testing prints and making colour adjustments right up to the final prints. 'Using Epson printing technology, I was able to recreate the emotions and colours I felt and saw the moment the image was captured,' says Steve. 'The colours are true to what I saw when I took the picture.'

'The main advantage of making the prints digitally is that the process doesn't have to be done in the darkroom,' he adds. 'It's a much quicker, direct process. I can tweak and modify the prints right there and then.'

Still life

1 Christopher's interest was in the form of the leaves rather than their colour

Polaroid SX-70, Polaroid SX-70 Artistic (expired 2009), ISO 100, tripod, remote release

1



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Christopher Osborne Edinburgh

Christopher started taking photographs when he was 10 years old after inheriting the family Kodak 126 Instamatic camera. Years later he discovered some film that he had shot many years before, so he decided to throw himself back into the photographic arena. His favourite subjects are plants, water, urban scenes and anything Polaroid related. 'One of the things I love about Polaroid photography is the seemingly never-ending array of film types and techniques to explore,' says Christopher. He has recently discovered Polaroid 100 Chocolate film, which is now his firm favourite. To see more of his work, visit www.flickr.com/aspectsflight. Christopher's work was found on the AP Readers' Gallery website. Visit www.amateurphotographer.co.uk/photo-gallery.



2



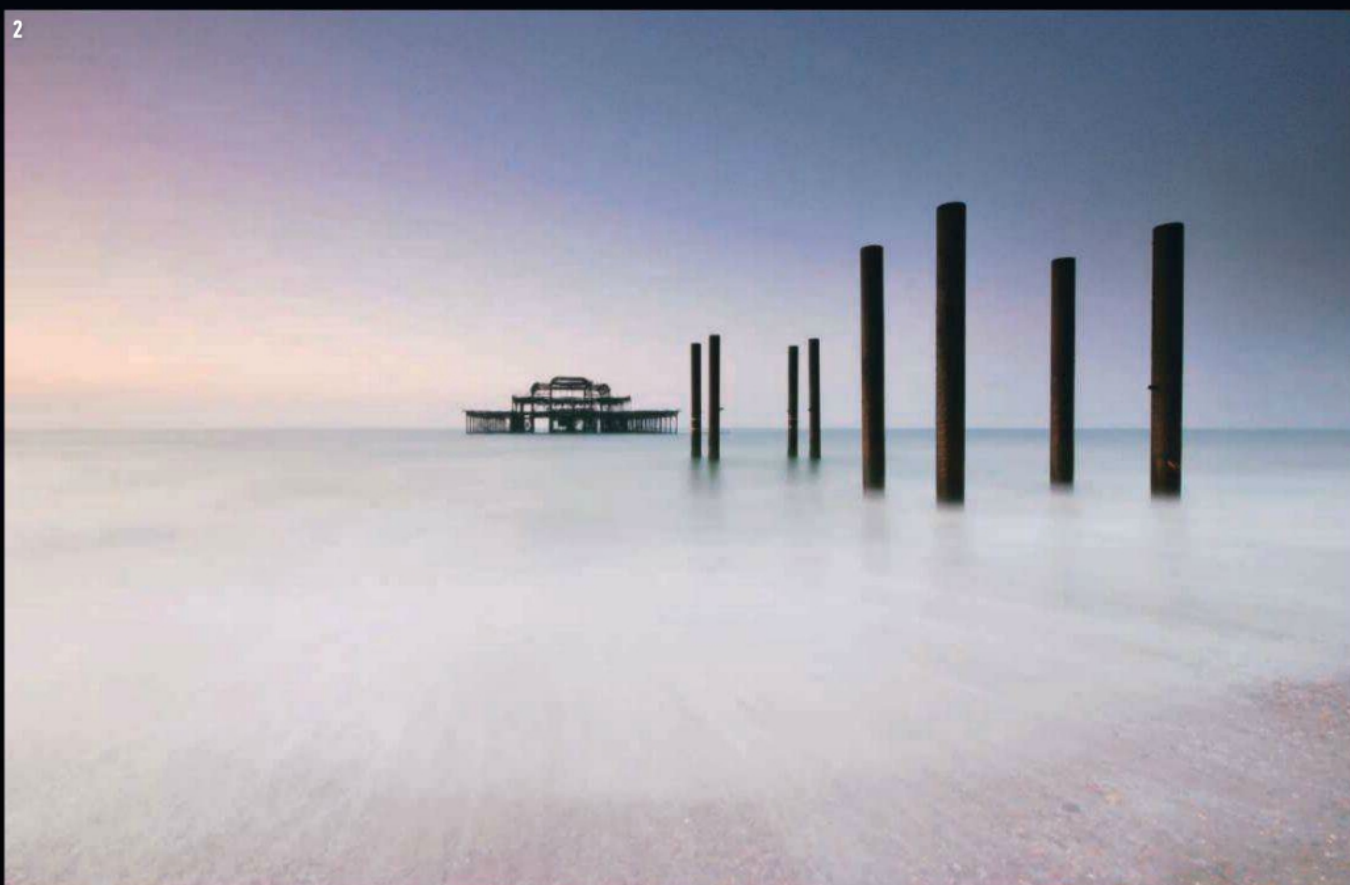
3

Tomato

2 Christopher took this shot to see how the film would handle the bright red of the tomato
Polaroid SLR680, Impossible PX680 First Flush, ISO approx 600, tripod, remote shutter release

Autumn leaf

3 The film and light have really brought out the fascinating detail of the leaf's veins
Polaroid SX-70, Polaroid SX-70 TZ Artistic (expired 2009), tripod, remote shutter release





EDITOR'S CHOICE
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Shooting into the sun rates as a serious crime to many photographers, but here George shows us that is actually just another creative technique. I love the rays bursting from behind the tree and the way the backlit ferns glow gold on the woodland floor. George's composition works well, as the main trees sit on the left hand third and balance the bright left with the darker right. It's a very effective shot – *Damien Demolder, Editor*

George Edwards Berkshire

George, 17, became interested in photography about a year ago. He used to take the occasional photo, but recently discovered Flickr and gained inspiration from the landscape images he found on the site. 'Landscape photography is an ongoing project where I try to achieve better compositions with each image,' he says. George is also studying photography at college. His favourite subjects are woodlands, fields and seascapes. 'I can't always get a nicely composed image, but the challenge keeps me getting back out there every morning,' adds George.

The Golden Hour
1 There's a real interplay between the various colours and tones here
Nikon D60, 18mm, 2secs at f/22, ISO 100, tripod

Brighton West Pier
2 This simple shot makes nice compositional use of the famous burnt-out pier
Nikon D60, 10mm, 48secs at f/22, ISO 100, tripod

The Silent Wood
3 This shot is unconventional, but no less effective for it
Nikon D60, 18mm, 1/4sec at f/13, ISO 100, tripod

Colour in the Light
4 Sometimes landscapes can be small and up close, such as in this shot
Nikon D60, 55mm, 1/8sec at f/5.6, ISO 100, tripod

Bus Stop

1 This nicely balanced shot makes great use of the man sitting on the bench

Pentax K-x, 18-125mm, 1/400sec at f/8, ISO 200

Billboard

2 The visual interaction between the poster and the woman work well in this grab shot

Pentax K-x, 18-125mm, 1/200sec at f/8, ISO 400

Shop windows

3 The woman in the poster appears to be observing the man reading the paper

Pentax K-x, 18-125mm, 1/80sec at f/8, ISO 400



Ken Mayled Vale of Glamorgan

Ken got his first taste of photography when he was 14. His art teacher encouraged him to photograph as many steam locomotives as he could as they were about to disappear from the British landscape. Ken's interests have now moved on and he would like to shoot the Grand Canyon and cowboy states of America. Ken's work was found on the AP Readers' Gallery website. Visit www.amateurphotographer.co.uk/photo-gallery.



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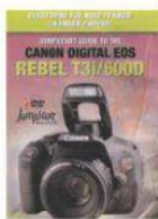
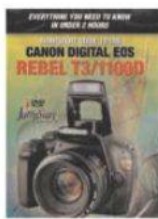
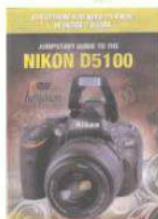
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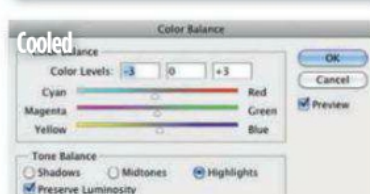
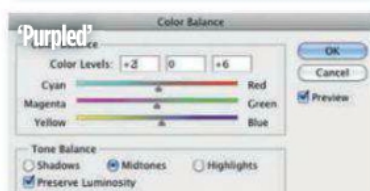
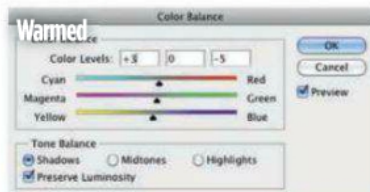
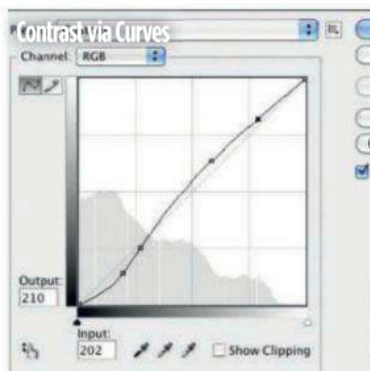
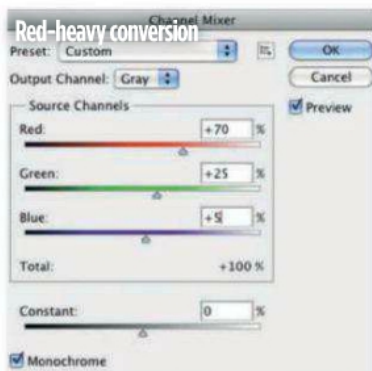
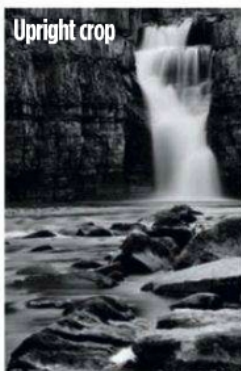
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APappraisal

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High Force Waterfall, Teesdale Craig Stapleton

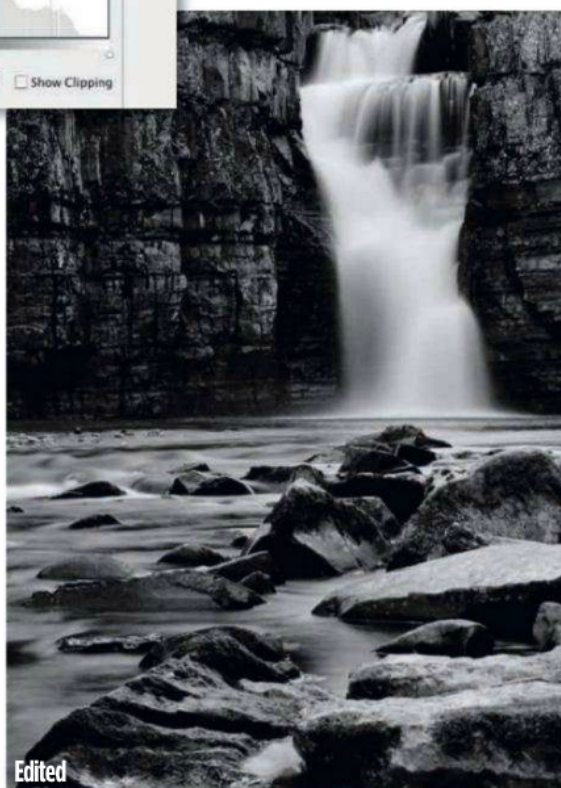
Olympus E-410, 14-42mm, 6secs at f/7.1, ISO 100

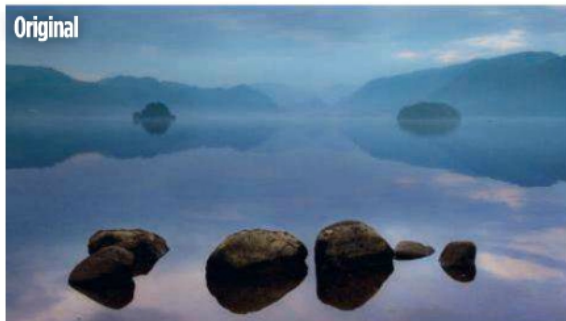
THIS is an impressive waterfall, and Craig has pulled out the f-stop to get a nice bit of motion in the water. I like the low angle, too, as it lends the scene depth and a sense of scale.

Craig's white balance is a little cool, though, as the shaded light has cast a blue hue across the scene, and I'm not sure the space on the left of the frame has been used very well.

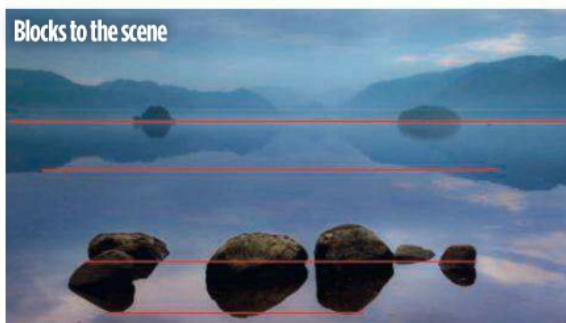
My first act was to crop the image to an upright, so we can lose the left side that adds nothing to the shot. I tried removing the blue hue, but then realised the picture is about the tones, not the colour. A red-heavy channel conversion to black & white, followed by a touch of contrast via Curves, has brought out those tones and made a more dynamic image. Using the Color Balance tool I added a touch of warmth to the shadows, 'purpled' the midtones and then cooled the highlights.

The only thing bothering me then was the bright white highlight in the centre of the bottom of the frame, so I cloned some water over it. The new image has a weight the original doesn't, but credit to Craig for capturing the angle in the first place.





Original



Blocks to the scene



Edited

Derwent Water, Cumbria

Alf Bailey

JUST as smells and sounds can either relax or excite our senses, so can colours. Yet sometimes we forget this when taking photographs. We use exciting colours in relaxing views – and come out with a picture that has contradictory elements. Alf's lakescape of Derwent Water is alive and vibrant, buzzing with shocking colours that peel our eyelids and demand attention. The view, though, is of a relaxing misty morning. The colours and the view conflict and leave my poor brain confused about what it should be feeling.

My other issue with this image is the composition. Alf has done well to find something interesting to put in the foreground – some Joe Cornish boulders – and they add depth to the scene. The problem is that, as they are lined up parallel

with the base of the frame, they act like a row of riot police. They are a block, a hurdle to overcome, and they prevent us from comfortably reaching the rest of the scene. Once we jump over them we come to the next hurdle, the reflections of the mountain tops in the water, and then the water's edge, before we get to the mountains and their delightful mist. There are so many fences to climb that by the time we get to the subject we are mentally exhausted.

I've mocked up a different angle in which the rocks lead us into the frame, acting as a door that is open, so the hurdles further into the picture seem less of an issue.

Even when working with a scene that has as much potential as this one does, we still have to work hard to help the viewer enjoy it.



Original

River Tam, Staffordshire

Ben Williams

Nikon D90, 70-200mm, 1/800sec at f/13, ISO 200

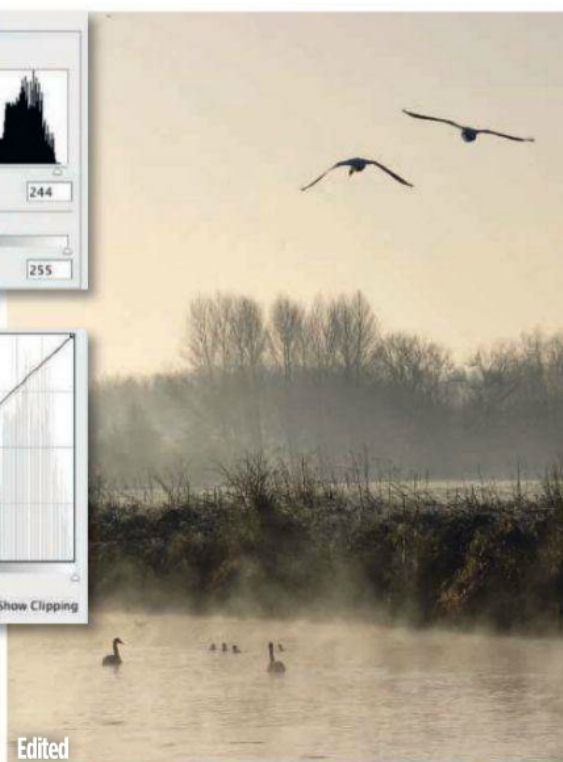
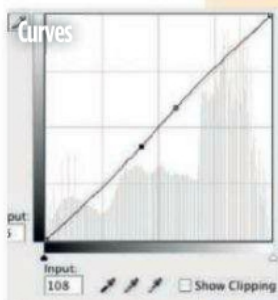
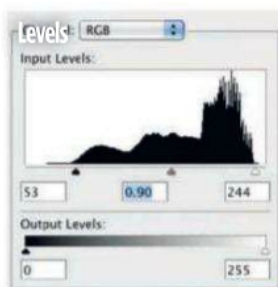
WHAT an idyllic scene, Ben! This looks like something Constable might have sharpened his brushes for. It is well photographed, too, with an exposure that shows off the mist and the different tonal layers that separate the tree lines in the distance, yet keeping the foreground prominent.

The most exciting elements of the shot are the birds – swimming and in-flight – and really it is these that Ben should be drawing our attention to. I like the layering, but we don't need quite so much of it to get the message across.

I've trimmed off the edges of the frame to form an upright 8:6 proportion crop that contains all the interesting elements but in a neater space. I've also added a tiny bit more 'oomph' with Levels, finding a black and a light, shallow curve to stretch the longer tones.

It's a lovely shot, and although I've turned it on its end, it is still my picture of the week. Well done, Ben.

PICTURE
OF THE
WEEK



Edited

AP Testbench

Over the next few pages we present this week's equipment tests, reader questions and technique pointers

National Geographic Earth Explorer large backpack (NG 5738) £359.95

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NATIONAL Geographic's Earth Explorer bags are made from a long-lasting, heavy-duty fabric. The material is not waterproof, although a rain cover is provided. The NG 5738 is a beast of a bag, weighing 4.5kg, and it is large enough to hold two or three DSLRs and lenses in the main compartment, plus a 17in laptop in the rear section. Furthermore, the exterior is covered with small pockets, many of which are closed by Velcro or zips and then securely fastened by canvas straps and metal buckles. Items such as mid-sized lenses and notepads can be stored in these pockets (although they are not fully padded), and a tripod can be fixed on either side.

For such a heavy bag, the NG 5738 is surprisingly comfortable, thanks in part to the large hip belt (each side has a further pocket) and well-padded lumbar support. However, as the outside of the back of the bag is also made from fabric, it can be a little uncomfortable when lugging it around in the heat. While this bag may not be lightweight and quick to use, it is certainly stylish, durable and able to support a heavy load.

Tim Coleman

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THE SMDV Flashwave III is a wireless triggering device for Speedlite-type battery flashguns and studio flash heads that also acts as a camera remote release. There is a transmitter that slides into the camera hotshoe and a receiver that attaches to the flash by a sync cable or directly into a hotshoe, which is situated on one side. There is a tripod thread on the other side, which is a feature I particularly like as the flash and receiver combination can be attached to a lighting stand or a tripod and it is sturdy enough to act as a base for a small Speedlite.

The maximum specified range for triggering the flash is 600ft (around 180 metres), and in practice I found I was able to trigger a round corners, through walls and over the width of a rugby pitch.

There are four micro switches on each unit that control the 16 channels, and when used as a camera trigger the receiver attaches via a cable to the camera's remote port. A flashing LED on the receiver shows it is powered up and another LED indicates successful triggering between units. The only disadvantage of this unit is the lack of TTL metering support between the camera and Speedlite. **Andrew Sydenham**

Amateur Photographer
A tough wireless remote flash and camera trigger
★★★★☆

Amateur Photographer
A heavy-duty backpack with plenty of storage
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AP 21 April

Panasonic Lumix DMC-TZ30

Panasonic's flagship travel compact is crammed with new features, including a 20x optical zoom Leica lens and touch LCD screen.

AP 21 April

Nikon D800

With its 36.3-million-pixel CMOS sensor, we find out how the world's highest resolution full-frame DSLR performs.

AP 28 April

Canon PowerShot SX260HS

Canon's latest high-end compact camera has an impressive 12.1-million-pixel sensor and 20x optical zoom. We put it to the test.

AP 28 April

Pentax K-01

Pentax's unconventionally styled 16.1-million-pixel K-01 is the first mirrorless camera to use Pentax's existing K mount.

AP 5 May

MagneFlash Splash Mono 30 portable lighting kit

Andrew Sydenham tests a diminutive flash head and softbox combination with 'go-anywhere' capabilities

KIT CONTAINS

- Splash Mono 30 flash unit 150
- Airopack 30 softbox and adapter
- Aluminium tabletop stand
- UK mains charger
- Cordura kit case
- Sync lead

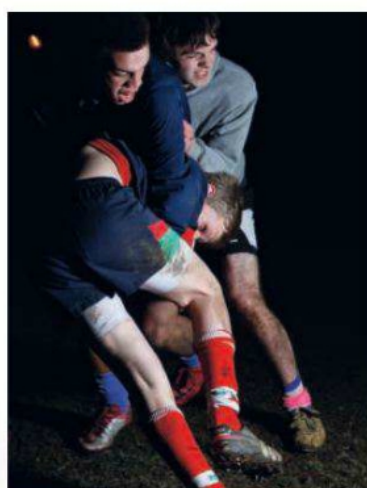
DATAFILE

RRP
£258
Guide number
30m @ ISO 100
Power source
Internal rechargeable
battery with charge time
of approx 2 hours
Flashes per charge
Approx 160 at full power
Flash duration
1/4000sec
Colour temperature
5,600K
Flash modes
Full power-25%
4 steps + pre
Slave cell
Internal mono slave cell
Sync connection
3.5mm low-voltage
mini-jack socket
Weight
600g (without stand
and softbox)
Dimensions
150x85mm (body diameter)
135x220mm (overall)

BUILT around MagneFlash's Splash Mono 30 unit, this kit provides a very compact and robust light source for location or studio use. The advantage of this unit over a Speedlite-type flash is that it will work with virtually any camera. As its name suggests, the sealed acrylic case of the Splash will survive a rain shower, and although you can't immerse it in water, damp or dusty environments shouldn't present any problems. It is also possible to give extra protection to the unit by covering it with a clear zip-lock sandwich bag so that in, say, a downpour, no harm can come to your flash.

BUILD AND HANDLING

The Mono 30 head is similar in layout and shape to a traditional studio monobloc, but in miniature. There are four push-button switches on the backplate for on/off and power-ratio adjustment, along with the mini-jack socket for the sync lead or radio slave. The labelling of the switches and power indicators is not backlit and this makes the small typeface very difficult to read in low light. The bright LEDs of the ratio indicator compound matters, but once you are familiar with the simple layout and small number of functions this doesn't become an issue. The softbox folds flat and is easy to assemble, with all the parts



This image was taken with the MagneFlash during an outdoor evening rugby training session

attached using Velcro. It is a simple design and I would expect it to last well under normal conditions. I particularly liked the stand provided with the kit, as it was well balanced and gave excellent support to the head and softbox. However, in windy conditions and at full extension it would need a weight added to the base.

PERFORMANCE

The kit can be out of its robust Cordura bag and ready for use in minutes, and the lamp head can be used without the softbox if you want to illuminate an area of a room or bounce light off a wall or ceiling. There is no overheating cutout in the unit as it remains cool after repeated firing.

For high-speed firing I set the power to 50% for one or two flashes and 25% to give up to four flashes at any speed. The slave cell picked up well indoors and over reasonable distances outside with direct line-of-sight flash. The flash recharge time at full power is 6secs, and while I found I was waiting for it to catch me up, the capacity of around 160 full-power flashes per charge is very acceptable. **AP**



The MagneFlash Mono 30 head with softbox is assembled using Velcro seams secured by a plastic ring and locating lugs

Verdict

THE
MagneFlash
Splash Mono
30 lighting
kit is a delight



to use and simple to operate. There is also the potential to try other light shapers, such as snoots and umbrellas, with a little adaptation. I took the unit to a rugby training session, treated it roughly in the cold and damp, and was impressed by the quality of light from the 30x30cm softbox. Having tried one flash unit, I could see potential for putting a kit of three heads together and having a light and versatile kit for portraiture or interiors under extreme conditions.

MagneFlash, Louden Photographic, 16 Millers View, Ipswich, Suffolk IP1 4QB. Tel: 01473 211 384. Website: www.magneflash.com

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in association with Amateur Photographer, What Digital Camera, and the SPI

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17 April 2012
6.30pm-8pm

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BRETT HARKNESS

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SOCIAL PHOTOGRAPHER

WE ARE delighted to announce that Brett Harkness, the highly acclaimed 'social photographer', will be giving an insight into his amazing photographic style as part of our photographic seminar series.

Brett will talk about his love of travel imagery and reveal the techniques that

make his wedding and social business run like clockwork. You can ask questions and find out what makes him tick in the crazy world of high-end weddings.

To be held at the home of *Amateur Photographer* and *What Digital Camera*, in the Blue Fin Building in London, 90 delegates

will be treated to an intimate one-and-a-half-hour seminar, including a Q&A session, followed by the chance to buy one of Brett's books at a book signing.

Tickets are sold on a first come, first served basis at £29.99 per head, and include the seminar, a glass of wine and a goody bag.

To be held at the Blue Fin Building, 110 Southwark Street, London SE1 0SU

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At the heart of the image



For more information about **Brett Harkness** and the secrets behind his beautiful images, including details of his DVD *Real Life Wedding Training*, his courses throughout the year and his latest training book, *The Complete Guide to Organising and Styling Professional Photo Shoots*, visit <http://brettharknessphotography.com>.

***PLEASE NOTE** places are only confirmed upon receipt of payment. Tickets are non-refundable.



Nikon D4

The 16.2-million-pixel **D4** professional DSLR is Nikon's attempt to improve upon its own D3S, one of the best cameras we have ever reviewed

Richard Sibley
Technical writer



WHEN we reviewed the Nikon D3S in AP 2 January 2010, it scored an impressive 89%, making it one of the best DSLRs we have ever tested. Physically, the camera was nothing groundbreaking, based as it is on the existing Nikon D3. However, it did introduce an incredibly impressive 12.1-million-pixel CMOS sensor capable of shooting at an equivalent of ISO 102,400. What really made the D3S stand out at the time, though, was the low level of noise in images taken at between ISO 800 and 3200.

That the Nikon D3S was capable of producing images of superb quality made it a

firm favourite with professional photographers the world over. With its emphasis on a fast shooting rate and great image quality in low light, the D3S soon became the preferred camera of many sports, wildlife, events and press photographers.

Wisely, with the D4, Nikon has opted for the 'if it ain't broke, don't fix it' philosophy. The new professional camera has evolved from the D3S, but with some significant tweaks and improvements, the most important being a new 16.2-million-pixel sensor. There is also an improved sensitivity range of ISO 50-204,800: an increase of 1EV at either end of the sensitivity range. The AF and metering systems have been upgraded, too. In total, Nikon quotes more than 45 improvements over its predecessor, all of which should improve both the handling and image quality of the new high-end, professional DSLR.

AT A GLANCE

- 16.2-million-pixel, FX-format CMOS sensor
- Expeed 3 image processor
- 91,000-pixel metering sensor
- ISO 50-204,800 equivalent
- 11fps maximum shooting rate
- 51-point autofocus
- New XQD card socket
- 3.2in, 921,000-dot LCD screen
- Street price £5,289 (body only)

With 2012 being an Olympic year, it is clear that Nikon hopes the D4 will prove to be the camera of choice for professional sports photographers.

FEATURES

The new 16.2-million-pixel CMOS full-frame sensor of the Nikon D4 seems to have evolved from the 12.1-million-pixel sensor used in the D3S. As well as FX full-frame lenses, DX-format lenses designed for Nikon cameras with APS-C-sized sensors can also be used on the D4, but at a reduced resolution of 7 million pixels. A 5:4 crop format is also available, regardless of the lens being used.

Running the D4 is the Expeed 3 image processor first unveiled in Nikon's V1 and J1 compact system cameras. It is a more powerful processor than the Expeed 2 unit in the D3S and Nikon claims it will, among other things, help with noise reduction, particularly when shooting HD video.

With the D4's shooting rate of up to 11fps without AF, or 10fps with AF, as well as HD video capture, the Expeed 3 unit is certainly going to have its work cut out when it comes to processing and saving images quickly.

As with most pro DSLRs, the Nikon D4 has two memory card sockets, one of which is for a CompactFlash card, with the other for the new XQD format cards. Created by Sony, the first XQD card was launched the day after the D4. The new format is able to read and write information at speeds of up to 125MB/s, which is around 25MB/s quicker than the current fastest CompactFlash cards, with even quicker speeds possible in the future. The capacity of the cards can theoretically increase to reach 2TB.

The need for such a highly specified card lies mainly in the huge amount of data generated when shooting video footage, and the speed at which it needs to be saved. However, with the D4 having a maximum continuous shooting rate of 11fps, the new high-speed cards obviously offer an advantage for still photographers, too.

Using a Sony 16GB XQD card, I





was able to shoot 70 raw images, 62 raw+JPEG Fine images or 148 JPEG images at 11fps before the buffer was full and the camera started to lag. However, after just a few seconds it is possible to begin shooting another burst. As a comparison, I used a Lexar 600x UDMA card and shot 60 raw, 58 raw+JPEG and 144 JPEG images, although the buffer took far longer to clear afterwards. Professionals who are going to take long bursts of images should seriously consider switching to XQD cards as there is a clear advantage.

The metering system has also been overhauled, with a new 91,000-pixel RGB sensor. This does more than merely meter the light through the lens. Similarly, the D4 uses an evolved version of the 51-point Multi-CAM 3500FX autofocus module, but more about this later in the test.

9/10

BUILD AND HANDLING

At a glance, the Nikon D4's body looks largely the same as that of its predecessor. Both are made of magnesium alloy and have built-in grips and shutter buttons for horizontal and portrait-orientation shooting. However, there are some slight changes intended to improve the overall handling.

The first is that the shutter button is now at a more inclined angle than on the D3S. Nikon claims this to be more comfortable to use, but while I did notice a difference between its position on the two cameras, I could not really say which one I preferred.

The most useful of the D4's new build and handling features are the two directional control sticks. These allow the AF point to be quickly repositioned, and pushing the stick in acts as a button for AF-L.

The reason for two control sticks is that they can be used when shooting in either portrait or landscape orientation. As you rotate the camera to change the orientation, the relative position of the



One overlooked advantage of the extremely low noise levels at high sensitivities is that it allows handheld macro images. This photograph of a wasp was taken with a Micro-Nikkor 55mm converted pre-Ai lens at ISO 1600

shutter button, front and rear control dials and the control stick remains the same. I found this really made a difference when switching back and forth between landscape and portrait formats, and again, it will be useful for professional photographers requiring such changes to take place quickly and smoothly.

Switching orientation is made even easier thanks to the D4's ability to save a different default AF point, depending on whether the camera is in shooting in landscape or portrait mode. For example, without this ability, if you were shooting a portrait using an AF point close to the top so that it is over the subject's eyes, when switching to take a landscape image the AF point would be on the far right. However, the D4 can be set up so that its built-in accelerometers will detect the camera's movement and then, when it is

rotated, the AF point is switched to a suitable pre-selected AF point – in this case one that is at the top of a frame when in landscape format – so that focus will remain on the subject's eyes at all times.

One of the D4's most useful features is also one of the simplest: the buttons on the camera are now illuminated. Like other Nikon professional and enthusiast DSLRs, the on/off switch has a third setting that illuminates the camera's LCD panels. On the D4, this also lights up all the buttons so they can be seen in the dark. This is clearly useful when shooting at night, but should also prove popular with concert photographers, who can usually be seen tilting their camera to all sorts of angles to try to find the button they need.

Control of the AF has also been changed. The three-way switch on the front of the

FEATURES IN USE CONNECTIVITY

FOR PRESS photographers, it is vital to be able to send the latest images back to a picture desk almost as soon as the events have taken place. This usually means uploading the files to a newspaper or agency's image server via a laptop computer. However, the Nikon D4 has an ethernet socket, and the software to connect to an FTP server, built in. This allows the photographer to simply plug in a network cable and upload all their images to a server straight from the camera.

There is also a new Nikon WT-5 Wi-Fi adapter. This is far smaller than previous Wi-Fi adapters, partly because it is powered by the camera's battery. The adapter allows the D4 to be connected to a Wi-Fi network, again making it easy to send images to another computer anywhere in the world. It



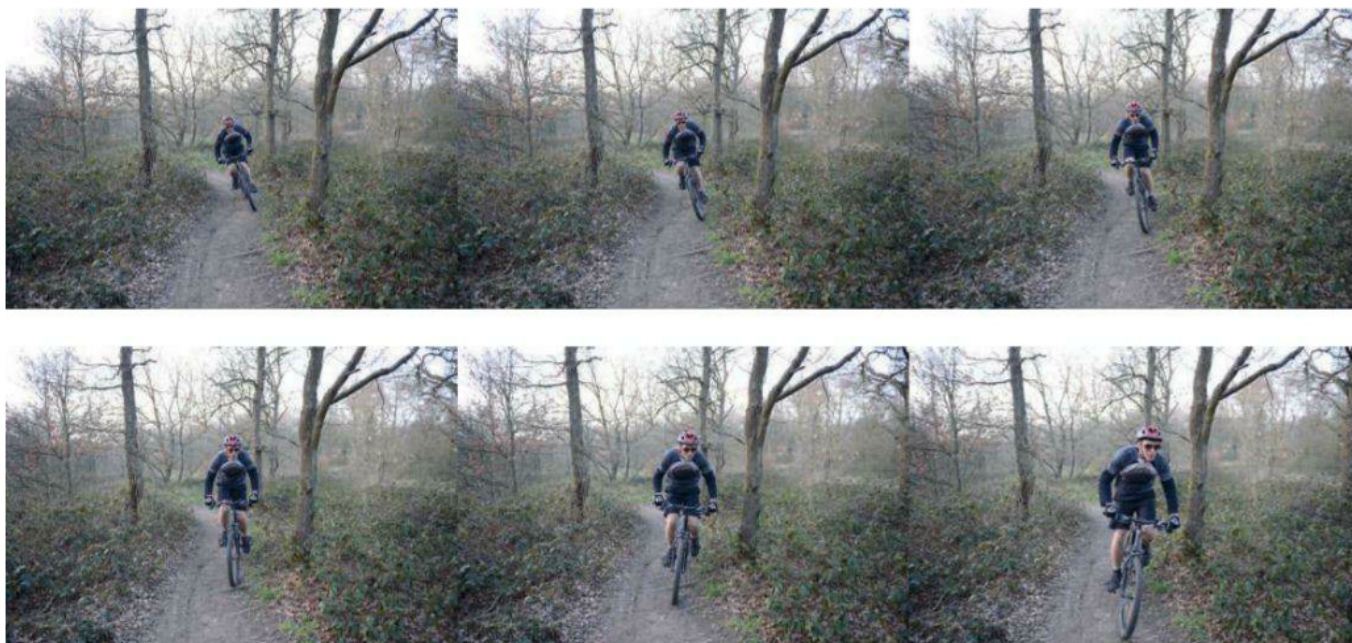
also allows wireless camera control.

Provided the camera has a Wi-Fi connection, a photographer can use any internet-connected computer, or a device such as a smart phone or

Apple iPad, to log into the camera and see the live view display, as well as browse the images and take full control over the camera's exposure and shooting settings, including autofocus.

The interface for controlling the camera can be accessed via a web browser using built-in software. This means additional software is not required, either for a smart phone or a computer.

It is also possible to create an ad-hoc wireless connection directly between a computer, smart phone, iPad (or similar) and the camera. This is extremely useful, as it doesn't require a separate Wi-Fi connection. In particular, it is a boon for wildlife photographers, as being able to see the live feed from the camera and control its settings from the safe vantage point of a hide means that the animal is much less likely to be frightened away.



D3S has been replaced with the simple AF/M switch with a central control button, similar to that found on the D7000. Flicking the switch between AF and manual focus, and then pressing the button allows the front and rear control dials to be used to switch between single or continuous AF, and the number of AF points in use. The reason for the switch is that it allows all the AF functions to be set through the viewfinder, with the aim of making it quicker.

As you would expect from a camera costing around £5,300, the D4 has a tough magnesium-alloy body with all the direct controls you would expect on a professional camera body. Those who have used the D3 or D3S will find that, for the most part, the bodies of the two cameras are largely the same. As stated earlier, the D4 is physically akin to the D3S, but with a few significant new features. I quickly grew accustomed to the new changes and they made the D4 very fast to use, particularly as you can alter the AF settings without taking your eye from the viewfinder.

9/10

NOISE, RESOLUTION AND SENSITIVITY

For low-light situations, the D3S is one of the best DSLRs we have seen. The quantum efficiency of the sensor is very high for a full-frame model, meaning that it converts a large amount of the light photons it receives into electrical energy. This is what allows the D3S to use high equivalent ISO sensitivities with low levels of image noise.

The D4's resolution is 4 million pixels higher than that of the D3S. Although this is a fairly conservative increase, it does mean the amount of noise can be well controlled, and at almost every sensitivity setting the two cameras seem to be on a par.

In-camera JPEGs taken on the D4 are relatively free of noise up to around

When shooting at 10fps, the continuous AF had no problem keeping up with the subject

ISO 1600. At this setting there is a hint of luminance noise in shadow areas, but nothing of concern. In fact, the usable sensitivity range is around ISO 100–6400. Images at ISO 6400 look like those taken at ISO 1600 settings of most DSLRs with APS-C-sized sensors.

Noise is visible at higher and extended sensitivities, although it is reasonably well controlled. Given the extremity of the settings, I would recommend shooting above ISO 128,000 only when absolutely necessary. However, what these settings do offer is the ability to take images handheld in extremely low light, just as with the D3S.

Even more detail can be recovered when editing raw files, where the amount of noise can be fine-tuned. That said, it doesn't make the extended ISO settings much more usable, but custom sharpening and noise reduction do improve images taken at the 'everyday' ISO 100–6400 range.

In terms of image quality, the D4 doesn't really do much better than the excellent D3S. Yes, it has a slightly higher resolution but there is little improvement in the amount of image noise.

28/30

METERING

Nikon's 1,005-pixel metering system, which has been used in a number of cameras over the past few years, has been dramatically upgraded for the D4. It now features 91,000 pixels, which does beg the question of how detailed a sensor needs to be to produce a good exposure.

I can see very little difference between the exposures of the D3S and the D4 in matrix metering mode, and you may wonder why such a high-resolution sensor is needed. However, the new 91,000-pixel sensor does more than just meter the light.

Nikon uses a scene-based metering system that is capable of recognising

'The D4 is very fast to use, particularly as you can alter the AF settings without taking your eye from the viewfinder'

elements in front of the lens, such as faces, and then picking a suitable exposure. The higher the resolution of the sensor, the more likely it is to be able to see such details and adjust the exposure accordingly. So while the sensor does measure light, its real benefit with regard to exposure is recognising scenes. This sensor is also used to measure white balance, so again, the more detail and information available, the better.

Overall, the system works well, with the camera producing good exposures. When shooting landscapes, for instance, I found that the evaluative metering was generally intelligent enough to avoid blowing out highlight detail. This did sometimes lead to the foreground being slightly underexposed, and I took one sequence of images that had a +0.7EV exposure greater than the metered setting. It is, nevertheless, quite easy to predict what the metering will do and, anyway, the slight underexposure can be beneficial in preserving highlight detail that, once lost, cannot be recreated.

8/10

WHITE BALANCE AND COLOUR

The new 91,000-pixel RGB metering sensor also helps provide the auto white balance settings for the camera. Again, this works well, and there is little perceivable difference between the D3S and D4.

Like the Nikon D7000, the D4

'When pointing at objects that are almost entirely in shadow, the D4 still focuses quickly and accurately'

has Auto1 and Auto2 AWB settings. The first of these produces an auto white balance that will detect tungsten lighting and correct it completely, while the second will still leave a hint of the tungsten colour in the scene. This is great for wedding photographers who may wish to take neutral images to keep the bride's dress completely white, but later prefer some of the natural colour to be left in the scene for more candid, documentary-style images.

The D4's colour and contrast settings are unchanged from the Nikon D3S, and like other Nikon enthusiast and professional DSLRs, there is a Manage Picture Control feature, which allows the individual settings of each colour to be tweaked. New image styles can also be created using Nikon's Capture NX2 software and then loaded to a memory card and onto the camera.

8/10

AUTOFOCUS

Like the metering system, the D4's AF system has also seen some improvements. The AF module itself is an adaptation of the Multi-CAM 3500 FX unit that was previously found in the D3, D3S and D700. One of the main upgrades is its performance in low-light conditions, with Nikon claiming that the camera can now focus in as little as -2EV of light – the equivalent of shooting by the light of a full moon.

The increased sensitivity of the AF sensor isn't just an advantage when light is in short supply. All 51 AF points of the D4 work at an aperture of f/5.6, while the 11 centre points, including a cross-type sensor, can work at f/8. This is useful for sports and wildlife photographers, as it allows an f/4 lens, such as the Nikkor 600mm f/4G ED VR AF-S or the 500mm f/4G ED VR AF-S, to autofocus when used with a 2x teleconverter, creating 1,200mm f/8 and 1,000mm f/8 lenses respectively. It will also allow photojournalists to travel light and use a 200–400mm f/4 lens and teleconverter to cover a 200–800mm range.

Using the D4 at night under streetlights, I found that the AF performs very well with a Nikkor 24–70mm f/2.8 lens. Even when pointing at objects that are almost entirely in shadow, the D4 still focuses quickly and accurately. The D3S is no slouch in low light, but of the two the D4 was faster and more accurate, whereas the D3S had to hunt a little more often for the focus point and occasionally just gave up. In fact, for focusing in low light, the D4 is the most efficient camera I have come

Facts & figures

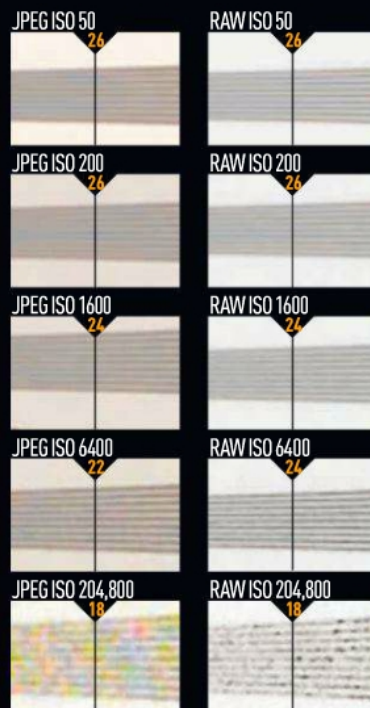


| | |
|---------------------|---|
| List price | £5,289.99 (body only) |
| Sensor | FX-format (full-frame) CMOS device with 16.2 million effective pixels |
| Output size | 4928x3280 pixels |
| Focal length mag | 1x (1.5x in DX-format crop mode) |
| Lens mount | Nikon F |
| Max file size | Approx 23MB NEF, 15MB JPEG (high-quality, large) |
| File format | NEF (raw), JPEG, raw+JPEG simultaneously |
| Compression | 3-stage JPEG, 3-stage NEF |
| Colour space | Adobe RGB, sRGB |
| Shutter type | Electronically controlled focal-plane |
| Shutter speeds | 30–1/8000sec in 1/3 steps, plus B |
| Max flash sync | 1/250sec |
| ISO | ISO 100–12,800 in 1/3EV steps and Hi1, 2, 3 (ISO 102,400) |
| Exposure modes | PASM |
| Metering system | 91,000-pixel RGB 3D matrix metering, centreweighted (adjustable), spot (1.5%) |
| Exposure comp | ±5EV in 1/3, 1/2 or 1EV steps |
| Exposure bracketing | ±9EV across 2–9 exposures in increments of 1, 1/3 or 2/3EV steps |
| White balance | 2 auto, 6 presets (with fine-tuning), plus 3 custom and Kelvin adjustment settings |
| WB bracket | 2–9 exposures in increments of 1, 2 or 3 |
| Drive mode | Single, continuous (Hi/Lo selectable, up to 10fps with AF; 11fps without AF and fixed exposure), self-timer |
| LCD | 3.2in TFT with 921,000 dots |
| Viewfinder type | Pentaprism single-lens reflex viewfinder |
| Field of view | Approx 100% |
| Dioptr adjustment | -3 to +1 dioptre |
| Focusing modes | Manual, single-shot AF, continuous AF with AF fine-tuning |
| AF points | 51 points, selectable manually or automatically |
| DoF preview | Yes |
| PC socket | Yes |
| Built-in flash | No |
| Cable release | Optional remote release |
| Memory card | 1x CompactFlash slot compatible with UDMA 7, 1x XQD slot |
| Power | Rechargeable Li-ion battery (supplied) |
| Connectivity | USB 2.0 Hi-Speed, HDMI |
| Weight | 1,180g (without battery or card/s) |
| Dimensions | 160x156.5x90.5mm |

Nikon, 380 Richmond Road, Kingston upon Thames, Surrey KT2 5PR. Tel: 0330 123 0932. Website: www.nikon.co.uk

RESOLUTION & NOISE

These images show 72ppi (100% on a computer screen) sections of images of a resolution chart, captured using the Sigma 105mm f/2.8 macro lens. We show the section of the resolution chart where the camera starts to fail to reproduce the lines separately. The higher the number visible in these images, the better the camera's detail resolution is at the specified sensitivity setting.



Shot at ISO 400 with a Nikkor 24–70mm f/2.8 lens, there is a lot of detail and no discernible image noise



FOCAL POINTS



LCD screen

The 3.2in, 921,000-dot screen has been improved to reduce screen fogging

Viewfinder shutter switch

This small switch activates a shutter that prevents light entering the camera through the viewfinder, which can be an issue when shooting long exposures

Camera shown actual size

Shutter

Nikon states that the new shutter has been tested up to 400,000 actuations. Shooting at 11fps continuously, the shutter has been tested to last for just over ten hours. More realistically, for a professional photographer shooting around 2,000 images a week, the shutter is good for four years. For the rest of us, it will probably last a lifetime.

Virtual horizon

In the shooting menu is the virtual horizon, which uses accelerometers to tell when the camera is level. Unlike previous versions, it is now dual-axis and recognises both side-to-side and front-to-back tilt. The virtual horizon can also be displayed in the viewfinder, using the AF points to indicate whether the camera is level.

Battery life

Although they look similar, the D4 uses a different battery from the D3 and D3S. The new battery is only 2,000mAh, compared with the 2,500mAh on the older battery. However, improvements in both battery design and power consumption mean that the battery in the D4 lasts longer. Nikon quotes that up to 5,500 shots can be taken on a single charge.

Time-lapse movie

As well as interval shooting, the D4 has a time-lapse mode that takes pictures at regular intervals for a set period of time. The results are then saved as a 1080p, 30fps time-lapse video. The feature handily calculates how long the final video will be before shooting begins.

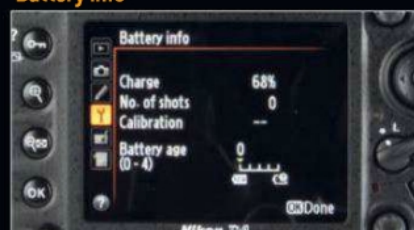
Shooting menu



My menu



Battery info





across. It really is impressive.

The new AF button, taken from the D7000, makes it far easier to change the number of focus points in use, or to switch to 3D matrix metering. All of this can be done without looking away from the viewfinder. Initially, I was concerned it might take longer to use the new AF switch to change from continuous to single AF and vice versa, but once familiar with the arrangement I found it faster than the previous system used on the D3S.

As you would expect, there are many different ways in which the AF system can be set up to suit the demands of different photographers, and it is worth spending time fine-tuning these settings rather than relying on the default configurations. For example, the response time of focus tracking can be changed. Setting this to its fastest system can help when photographing the sort of sports characterised by sudden or irregular movements, such as football matches. Likewise, it can be slowed, which will be more useful for tracking subjects that move at speed in a regular direction, such as a racing car.

Overall, the AF is superb. There is a difference in speed and accuracy compared to the D3S but it is only really in low light or when photographing a very fast-moving subject that this is particularly noticeable.

9/10

DYNAMIC RANGE

There is little that is surprising about the dynamic range of the D4 and it is comparable to other cameras of a similar specification. While I found that the camera could recover a good amount of detail from the highlight and shadow areas of raw files, it isn't quite as impressive as the D7000.

My 'real-world' findings are supported by the results at www.dxomark.com, which shows that at ISO 100 the D4 has a dynamic range as high as 13.1EV. This is respectable without being outstanding, especially given that it is a full-frame sensor. As a comparison, DxO rated the D7000, with its smaller APS-C-sized sensor, as having a dynamic range of 13.9EV.

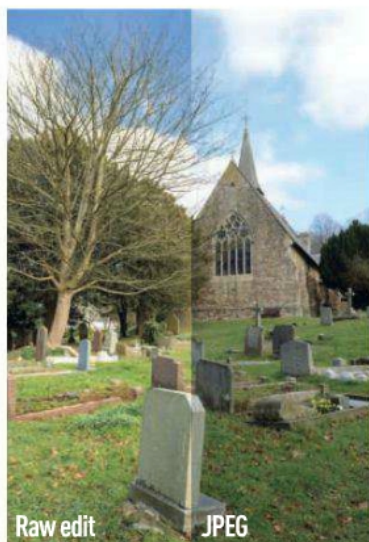
9/10

VIEWFINDER, LCD, LIVE VIEW AND VIDEO

As you would expect from a professional DSLR, the viewfinder of the D4 is very large, bright and offers a 100% view. The eyepiece is also interchangeable, allowing angle finders and magnifiers to be attached for more specialised uses.

When shooting video, or for very precise manual focusing, the rear monitor will be used for composition. The LCD screen retains the 921,000-dot resolution of the last generation of Nikon enthusiast and pro DSLRs. However, at 3.2in, it is slightly larger.

The new screen also has improved colour and contrast, with a colour gamut



The dynamic range and colour of JPEG images is good, but I found that much more data can be extracted from raw images

that almost matches the sRGB colour space. Usefully, the camera can also alter the brightness, contrast colour saturation and gamma of the screen, depending on the level of ambient light. This helps to ensure that the colours and contrast are a good representation of the image, regardless of the lighting. However, I found that reviewing the images on the rear screen was still difficult in very strong sunlight.

Although Nikon introduced the first DSLR with video capture, Canon has since somewhat stolen the limelight in this area. However, Nikon has evidently spent much time working on this technology and the D4 has some excellent new features. These include a live sound meter, as well as a headphone-out socket for audio monitoring. There is also the facility to take a live video feed from the camera through the HDMI socket. This feed contains no overlays, meaning that it is the raw footage being captured by the camera. This live raw feed can then be recorded to a separate device so it can be edited at the best possible quality. This is a very high-end feature that should appeal to many professional videographers.

Video can also be recorded in full HD in either FX or DX crop, although this obviously changes the field of view: a 50mm lens at full frame, for example, becomes the equivalent of a 75mm lens when recording in DX crop. This is extremely versatile for filmmakers, however, as it doubles the usefulness of each lens.

When the video capture is combined with the time lapse video option, and the extremely wide video capture sensitivity of ISO 200–204,800, the Nikon D4 should offer some good competition to the latest video-enabled Canon professional DSLRs. **AP**

9/10

Competition



Nikon D3S

TESTED 2 JANUARY 2010



Canon EOS-1D X

TO BE TESTED 21 APRIL

WITH A similar specification and price, the Canon EOS-1D X is sure to be the closest rival to the Nikon D4. Both cameras have full-frame sensors, although the EOS-1D X has a slightly higher 18.1-million-pixel resolution. The Canon DSLR also has a maximum shooting speed of 12fps with AF, which is 2fps faster than the D4. One feature that the D4 does have in its favour is that its AF points work down to f/8, whereas the points in the EOS-1D X only work down to f/5.6. As to whether the EOS-1D X is a better camera overall, I'll reserve judgement until our test in AP 21 April.

The older Nikon D3S may still remain very popular given the relatively small increase in resolution in the D4. It can be bought new for around £1,000 less than the D4 and it may be ideal for enthusiast photographers.

Verdict

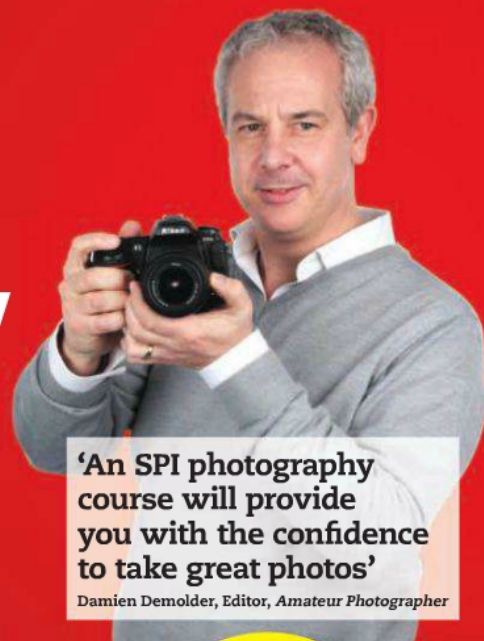
BOTH the Nikon D3 and D3S were hugely important cameras when released, and for a while they were the pinnacle of professional DSLRs. However, with the resolution of the D3S starting to look a little dated, it was perhaps due an update. The Nikon D4 has indeed updated the resolution, but not by much, and the image quality remains largely the same as its predecessor. However, this is no bad thing, as the D3S, and now the D4 are probably the best cameras to have at hand if you are shooting in low light.

Yet it is the D4's more easily overlooked details that really make the difference. For instance, wildlife photographers will be delighted with very sensitive AF points that allow the use of autofocus in low light and with 2x teleconverters with f/4 lenses. The illuminated buttons, ethernet connection, XQCA card sockets and ease of switching from landscape to portrait shooting are all superb refinements that help make the D4 an almost complete package. And this is without mentioning the excellent high-sensitivity image quality, metering and the shooting rate.

Of course, many of these features will be of no use to the average photographer and, at around £5,300, the D4 will be too expensive for all but the professional press and wildlife photographers, for whom it will be money well spent.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----------------------------|-------|---|---|---|---|---|---|---|---|----|
| Amateur Photographer | | | | | | | | | | |
| Tested as Professional DSLR | | | | | | | | | | |
| Rated Very good | | | | | | | | | | |
| 89% | | | | | | | | | | |
| FEATURES | 9/10 | | | | | | | | | |
| BUILD/HANDLING | 9/10 | | | | | | | | | |
| NOISE/RESOLUTION | 28/30 | | | | | | | | | |
| DYNAMIC RANGE | 9/10 | | | | | | | | | |
| AWB/COLOUR | 8/10 | | | | | | | | | |
| METERING | 8/10 | | | | | | | | | |
| AUTOFOCUS | 9/10 | | | | | | | | | |
| LCD/VIEWFINDER | 9/10 | | | | | | | | | |

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AskAP

Let the AP team answer your photographic queries

OLD NIKON SEEKS LENSES

Q For many years I used a Nikon F301 film camera with a 24-50mm f/3.5-f/4 Nikkor zoom lens, which I found perfect for both indoor and outdoor shots. I also used a 50mm f/1.8 standard lens and (occasionally) a 135mm f/2.8 telephoto Nikkor. Late last year I bought a Sony Alpha 390 digital camera with 18-55mm zoom lens from an AP advertiser, but I am confused as to what focal lengths I should be looking for to replace each of the three lenses I used with my Nikon. Can you help me find a wideangle zoom, a standard lens and a telephoto lens of the exact equivalent focal length and same (or similar) aperture as my old Nikon kit? **John Haskell**

A The Sony Alpha 390 has a 23.5x15.7mm APS-C-sized sensor, which gives a focal-length conversion factor of 1.5x.

This is commonly used to determine the 35mm/full-frame equivalent focal length for a lens on the smaller format sensor (so 18mm on the Alpha 390 would be equivalent to 27mm on 35mm/full-frame, for example). However, you can also apply the focal-length conversion in reverse to find the APS-C-sized focal length based on a 35mm/full-frame equivalent. So, dividing the focal length of your full-frame Nikon lenses by 1.5 will give you the equivalent focal lengths for your Sony camera. Doing this reveals that your 24-50mm Nikkor zoom would equate to a 16-33.3mm focal-length range on your Alpha 390, the 50mm Nikkor would be 33.3mm and the 135mm Nikkor is 90mm. So, with a bit of rounding up, we're looking for a 16-35mm zoom, plus 35mm and 90mm prime lenses.

Sony can match these focal lengths almost exactly with the SAL-1635Z (16-35mm f/2.8) zoom lens, SAL-35F18 (35mm f/1.8) and

SAL-85F14Z (85mm f/1.4). This will prove to be an expensive proposition, though, as Sony's list price puts this trio of lenses at more than £3,000.

This is because the 16-35mm zoom (£1,729) and 85mm prime (£1,369) are both Carl Zeiss optics with fast maximum apertures. By comparison, the 35mm prime is £179. Assuming this is prohibitive, you could consider the SAL-1680Z 16-80mm f/3.5-4.5 instead (pictured left), which equates to 24-120mm focal lengths in 35mm/full-frame terms. This is also a Carl Zeiss optic (indicated by the 'Z' in the model name), but it offers a slightly slower maximum aperture that drops from f/3.5 at the wideangle focal length setting to f/4.5 at the telephoto end of the zoom, and is a DT lens, meaning it is designed specifically for APS-C-sized sensors. At

£709, you may well find that this could replace both your Nikkor zoom and the telephoto lens that you only use occasionally. The addition of the 35mm f/1.8 prime (pictured above) would give you a good fast 'standard' lens for low-light or shallow depth of field work.

Chris Gatcum



ASK...

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FROM THE AP FORUM

Converting lux to a guide number

Footloose returns asks I am thinking about buying an LED light panel because I want to try my camera's video capabilities. The problem is, I've been trying to track down a simple chart that will allow me to compare the continuous light output from these panels (rated in lux) to the guide number used on flashes. I've tried searching the internet, but all I've found is a lot of rambling about the different standards used for measuring light output. Has anyone found a 'lux to guide number' comparison chart?

Beejaybee replies It's like comparing apples and oranges. The point about light panels – or any other form of continuous illumination – is that you can just leave the shutter open for longer if you need more light. The power output during the active phase of an electronic flash is in the kilowatt or even megawatt range, so I'd be surprised if you needed illumination as strong as that with a light panel. You wouldn't be carrying the power source around with you, that's for sure!

Bob Maddison replies A company called International Light Technologies has both online and downloadable converters (<http://www.intl-lighttech.com/support/calculator/evluxconvert/>) that converts a measured EV into lux or lux into EV. However, converting the brightness of any light source to an EV or lux value is quite different. Everything depends on the area of the light source and how narrow (or wide) its beam is, as well as the distance between the light and the subject: a single LED can be very bright, but cast a negligible amount of light on a distant subject.

GeoffR replies If we are being pedantic, the output of a flash is measured in joules or watt seconds, although it is rarely quoted in those units because a guide number is more useful. The output of an LED panel is continuous, and is usually measured in watts, so if you leave a 10W panel on for 1min you get 600-watt seconds/joules (10Wx60 seconds). The average flash duration is around 1/10,000sec, so even if the output were 600 Joules its brightness equates to a continuous light source of much greater power. As beejaybee points out, a power supply for a continuous light source of this magnitude isn't going to be portable.

CLEAN SWEEP

Q Can you tell me how to clean my old SLR camera, particularly the focusing screen and mirror?

Any other advice with regard to cleaning metallic parts and leather coverings would also be very much appreciated.

Roy Randell

A How you go about cleaning the mirror and screen of an SLR depends, to a considerable extent, on the age and type of the camera in question. I do not actually know the date when the major camera manufacturers changed from simple surface-silvered mirrors to the modern vacuum-plated aluminium mirrors, but I suspect it was in the early 1980s. Modern mirrors are overcoated with a microscopically thin layer of transparent quartz, which makes them surprisingly durable. SLRs of pre-1980 dates usually have simple surface-silvered mirrors whose reflective surface can be marked, or even removed, by attempting to clean them with a cloth. Assuming that by 'old' you mean made before 1980, the best and safest solution to dirty or marked mirrors or screens is to ask a professional repairer to do the job for you.

However, you probably already know that, and are looking for cheaper DIY approaches. If the dirt is granular, and might cause abrasion, the first resort is always a simple blower brush. Always blow dust off the mirror or screen with a bulb brush, and *not* by blowing forcefully into the camera. Droplets of saliva are not useful additions to the problem.

Greasy marks, or sticky plastic residue

from a decaying mirror buffer, can usually be removed from a mirror by using a new cotton bud dipped into a glass of vodka that has had one drop of washing-up liquid added to it. Never use a cotton bud twice, or use the end that you had previously held for cleaning – and resist the temptation to drink the vodka afterwards.

Cleaning focusing screens is much more difficult. The usual advice is not to try. Blemishes on focusing screens have no effect on the quality of images produced by the camera, provided that the screen is not so bad that you cannot focus.

If the 'old SLR' is of a type that has interchangeable focusing screens – Nikon F, F2 or F3, Exakta Varex, Canon F-1 and so on – it is sometimes possible to pick up second-hand screens on eBay or at camera fairs.

In the past I have successfully cleaned an Exakta screen by removing it from the camera and viewfinder, and washing it in warm water with a small amount of washing-up liquid. It was not a perfect job, because a tiny residue remained after it had dried, but it was certainly a great improvement. If you are determined to try to clean a screen in situ, the vodka and cotton bud routine used on the underside of the screen through the lens aperture will probably improve a very dirty screen, but don't expect a perfect result – and don't blame me if it goes wrong!

The same vodka and cotton bud approach works to clean satin chrome and viewfinder eyepieces. Leather or imitation leather coverings are tricky, cleaning is controversial and I prefer not to offer suggestions.

Ivor Matanle

AP GLOSSARY

ASPHERICAL LENS

Many of the elements used in lens construction are spherical, which means the front (and back) of each element has a smooth curve, either outward like the surface of a ball (convex) or inward like a dish (concave). The third type is an element with a planar (flat) surface.

The problem with these designs is that light passing through the centre and edges of a single lens element is unlikely to be focused at the same point. As a result, additional lens elements are needed to further modify and direct the light, so that it eventually focuses at the same point regardless of whether it enters the lens at its centre or edge.

An alternative to using multiple lens elements is to use an aspherical lens, which is a lens element with a less regular profile. A single aspherical element can perform the same light-controlling duties as multiple spherical elements. This

means that the lens into which it is fitted can be made lighter and smaller, as well as potentially cheaper – although this is rarely the case.

Different lens manufacturers use different terminology for the technology, but it usually appears in the name of the lens where used:

| Make | Listed as |
|-----------|-------------------------|
| Canon | Not listed in lens name |
| Nikon | AS |
| Olympus | Not listed in lens name |
| Panasonic | ASPH |
| Pentax | AL |
| Sigma | ASP |
| Sony | Not listed in lens name |
| Tamron | Aspherical |
| Tokina | AS |

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Sony Alpha 57

With its 16.1-million-pixel sensor, 15-point AF and 10fps with continuous AF, Sony's Alpha 57 may suit aspiring wildlife and action photographers

Tim Coleman
Technical writer



DURING the launch presentation for the Alpha 57, Sony revealed it is unlikely to release another DSLR and will instead focus on its single lens translucent (SLT) cameras for the enthusiast market. This strategy is perhaps an admission that Sony is unlikely to be able to compete successfully with the top DSLR brands in a crowded marketplace, and that developing a different type of system is the best way forward. Sony's innovative SLT line-up, although still only the second generation, has already established itself as a viable alternative.

An SLT camera uses a fixed translucent mirror, whereas a DSLR features a moving mirror. The fixed mirror of the SLT has advantages over a DSLR in several areas. When compared to its direct DSLR competition, such as the Nikon D5100 and Canon EOS 600D, the Alpha 57 benefits from phase-detection AF for video recording, high-speed capture at 10fps with

continuous AF and an uninterrupted live view feed. The downside to the SLT system is that not all the light coming through the lens reaches the sensor. However, even those concerned with the low-light ability of the SLT system will have been impressed by the performance of SLT cameras.

The Alpha 57 replaces the Alpha 55 in Sony's current line-up of four SLT models. Sitting between the Alpha 35 and Alpha 65, the Alpha 57 is ideal for those who cannot quite afford the more expensive 24.3-million-pixel Alpha 65, but want more than the entry-level Alpha 35 can offer. On the surface, there are few differences between the Alpha 57 and its predecessor. However, in several areas the features set of the new camera matches other cameras that cost a lot more money.

FEATURES

There are several cameras across the Nikon, Pentax and Sony brands that use a variation of the 16-million-pixel, APS-C CMOS sensor that is found in the Alpha 57. Like its Alpha 55 predecessor, the Alpha 57 uses a 1.44-million-dot LCD electronic viewfinder (EVF), but in this case it has been refined to offer an additional 'maximum' magnification

setting that further enlarges the view. A defining difference between the Alpha 57 and the more expensive Alpha 65 is that the Alpha 65 uses Sony's 2.359-million-dot OLED EVF, which is brighter, crisper and gives greater contrast.

Key shooting modes carried across from the older Alpha 55 include high dynamic range (HDR), 3D sweep panorama, sweep panorama, intelligent auto (iA) and iA+. iA+ includes the continuous shooting and HDR mode options. The Alpha 57 has 10fps high-speed shooting that can be used with continuous AF and exposure control for approximately 25-frame bursts. A new 12fps burst is available in the tele-zoom continuous advance priority AE mode. To achieve this faster frame rate, a 1.4x magnification is applied, resulting in a 25-frame burst of 8.4-million-pixel, medium-quality JPEGs.

Clear Image Zoom and Auto Portrait Framing are two new shooting modes that make use of Sony's Pixel Super Resolution Technology. Clear Image Zoom offers up to a 2x zoom from the selected focal length. When used, a full-size 16.1-million-pixel image is saved, unlike with the 2x teleconverter modes found in the Alpha 65 and Alpha 77 that simply crop into the full-size image. Clear Image Zoom works by cropping into the full-resolution image, then interpolating neighbouring pixels, effectively upscaling the image.

Auto Portrait Framing works with face recognition. Once a face has been detected in a scene and the image recorded, a second file is processed that crops the image according to the rule of thirds and in relation to the captured face.

One feature that is lacking in the Alpha 57, but which can be found

AT A GLANCE

- 16.1-million-pixel, APS-C-sized CMOS sensor
- 1.44-million-dot electronic viewfinder
- ISO 100-16,000 (extended to ISO 25,600)
- 15-point AF system with three cross-type points
- 12fps high-speed mode
- Street price around £700 with 18-55mm kit lens

'The Alpha 57 is well balanced in the hand, with a contoured and textured leather-effect handgrip'

in the Alpha 65, is GPS. Otherwise, the Alpha 57's specification is impressive for a camera of its price, and the features on offer should satisfy those who are new to photography.

8/10

BUILD AND HANDLING

The body of the Alpha 57 is virtually identical to the Alpha 65, which is larger than the Alpha 55. Both cameras are constructed from a tough polycarbonate shell. The Alpha 57 is well balanced in the hand, with a contoured and textured leather-effect handgrip for a firm hold.

The number of external controls on the Alpha 57 gives it an entry-level feel. There is no top LCD and just a single dial for exposure control, so the AEL button is used to adjust aperture when in manual-exposure mode. As well as offering PASM control, the shooting-mode dial has several of the specific auto shooting modes, which should aid novice photographers. Also helping out is the '?' button on the rear of the Alpha 57. By default, this is set to access the shooting tip list, which is a wordy beginners' guide to photography.

The Alpha 57 has some nice touches, though. Many of the buttons, including ISO and AEL, can be customised. The rubber protector over the connection ports is split into four, so the rubber over unused ports can remain in place to keep them protected. The Alpha 57 also uses the same NP-FM500H battery found in the more expensive SLT models, which has a claimed 50% greater life capacity over the battery used in the entry-level Alpha 35.

The same in-camera menu system is used in all Sony's SLT models. Through this menu, such useful controls as lens corrections and peaking can be found. Peaking indicates the point of focus in the EVF and on the LCD by outlining the edges of the area in focus, in any one of a choice of colours.

The built-in flash has an output of GN 10m @ ISO 100, which can be adjusted $\pm 2\text{EV}$, controlled wirelessly, used as a fill-in and set to rear curtain or slow sync.

Handily, the LCD and EVF can display the AF points, an electronic level for side-to-side and front-to-back tilt, as well as exposure preview and exposure settings.

For anyone wanting full control over the camera, they may be a little frustrated by the lack of external buttons, but the Alpha 57 is still quick and easy to operate.

8/10

Facts & figures

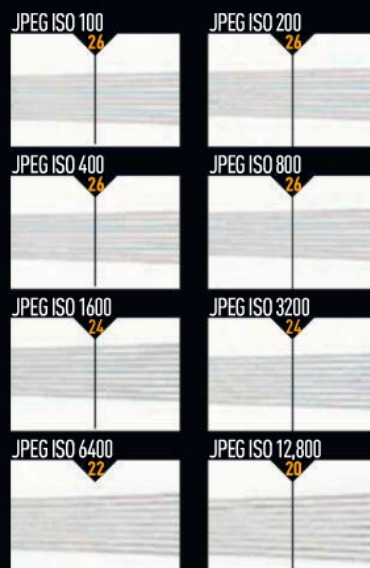
| | |
|-----------------------|---|
| RRP | £749 (with 18-55mm kit lens) |
| Sensor | 16.1-million-effective-pixel APS-C (23.5x15.6mm) CMOS sensor |
| Output size | 4912x3264 pixels |
| Focal length mag | 1.5x |
| Lens mount | Sony Alpha mount |
| File format | Raw, JPEG, raw + JPEG simultaneously |
| Compression | 2-stage JPEG |
| Colour space | Adobe RGB, sRGB |
| Shutter type | Electronically controlled focal-plane shutter |
| Shutter speeds | 30-1/4000sec in 1/3EV steps plus bulb |
| Max flash sync | 1/160sec |
| ISO | 100-16,000 (expanded to ISO 25,600 in multi-frame NR mode) |
| Exposure modes | iAuto, program, aperture priority, shutter priority, manual, scene selection, sweep panorama, 3D sweep panorama |
| Metering system | 1,200-zone evaluative metering, centreweighted, and fixed centre spot |
| Exposure comp | $\pm 3\text{EV}$ in 1/3EV steps |
| White balance | Auto, 6 presets, Kelvin, plus custom setting |
| White balance bracket | Yes, 3 exposures |
| Drive mode | 12fps in tele-zoom mode, 10fps in continuous advance priority AE, continuous 8fps high or 3fps low, single-shot, self-timer |
| LCD | Articulated 3in LCD with 921,600 dots |
| Viewfinder type | Electronic LCD, with 1.44 million dots and 100% frame coverage |
| Focusing modes | Manual, single-shot AF, automatic AF, continuous AF, face detection |
| AF points | 15-point with 3 cross-type, auto or manual selection |
| DoF preview | Yes |
| Built-in flash | Yes - GN 10 @ ISO 100 |
| Video | 1920x1080 pixels (at 50fps, 25fps or 24fps), 640x480 pixels (at 25fps), AVCHD 2 with MPEG-4 AVC H.264 compression |
| External mic | Yes |
| Memory card | SD, SDHC, SDXC, Memory Stick Pro Duo |
| Power | Rechargeable Li-Ion NP-FM500H battery, up to 550 shots |
| Connectivity | USB 2.0 Hi-Speed, HDMI |
| Dimensions | 132.1x97.5x80.7mm |
| Weight | 618g (with battery and card) |

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RESOLUTION AND NOISE CONTROL

These images show 72ppi (100% on a computer screen) sections of images of a resolution chart, captured using the Sigma 105mm f/2.8 macro lens. We show the section of the resolution chart where the camera starts to fail to reproduce the lines separately. The higher the number visible in these images, the better the camera's detail resolution at the specified sensitivity setting.



WHITE BALANCE AND COLOUR

There are six colour modes, comprising standard, vivid, portrait, landscape, sunset and black & white, all of which can be adjusted ± 3 for contrast, saturation and sharpness. As with other Sony Alpha cameras, the standard colour mode produces strong but realistic colours. The saturation can also be tweaked to add punch, but it is easier to change to the vivid setting.

I found the auto white balance in daylight to be a little on the cool side, but for most

purposes it works well. The process of creating a custom white balance reading is simple. Take a custom reading by pointing the spot focus at a white area in a scene, then accept the suggested Kelvin temperature. Manual Kelvin adjustment is also available along with nine white balance presets, of which four are varieties of fluorescent light.

In the drive mode menu, white balance bracketing is available over three frames at 'Hi' and 'Lo' settings.

8/10



METERING

All Sony SLTs, including the Alpha 57, use the company's 1,200-zone metering system, offering multi-segment, centreweighted and spot modes. Spot metering is limited to 15 AF points, all of which are located within the central portion of the frame. This can make spot metering a little awkward if the subject is off-centre. However, I suspect those interested in the Alpha 57 will generally stick to multi-segment metering, and this mode works effectively, leaning slightly towards underexposing for brighter results.

8/10

AUTOFOCUS

Like the Alpha 55 and Alpha 65, the Alpha 57 has through-the-lens (TTL) phase-detection AF with 15 points. The points are arranged in three zones, each of which contains one extra-sensitive cross-type point. The number of points is class-leading, and indeed AF is very quick, even in low-contrast light. Furthermore, offering continuous phase-detection AF during video capture and for high-speed burst modes means the Alpha 57 matches the performance of models that cost a lot more.

There are a number of useful autofocus options and tools available, including subject tracking, which latches onto the object closest to the centre of the frame, and face detection, which works well and stores faces in a register. When these faces are recognised in other scenes, they are given focus priority.

The camera also uses Eye-Start AF, which is a dedicated sensor that turns the EVF on when the camera is held to the eye and also switches on autofocus, so that the camera has already started to focus before the shutter-release button is pressed. Eye-Start can be deactivated, and indeed must be when the continuous AF setting is required.

8/10

DYNAMIC RANGE

The dynamic range of approximately 12.5EV at ISO 100 is standard for a camera at this level. A loss of 1/5EV of light because of the fixed translucent mirror should have a more dramatic impact on the dynamic range at higher ISO ratings. However,

although an 8.5EV dynamic range at ISO 3200 is 4 stops less than at ISO 100, this performance is no worse than that of other cameras at this level.

8/10

NOISE, SENSITIVITY AND RESOLUTION

The Sony Alpha 57 has a sensitivity range of 7 1/5 EV at ISO 100-16,000, which can be extended to ISO 25,600 in the multi-frame noise-reduction setting.

With virtually the same sensor as cameras such as the Alpha 55, Nikon D7000 and Pentax K-5, it comes as no surprise that the Alpha 57 is capable of resolving a high level of detail. At ISO 100, the camera reaches the 26 marker on our resolution charts in raw and JPEG format.

Levels of luminance noise are inevitably higher than equivalent DSLRs at higher ISO ratings, due to the use of a fixed translucent mirror. However, luminance noise is only really noticeable at ISO 1600, and images are usable at this setting. Higher levels of noise affect the resolved detail at higher ISO ratings, and for both raw and JPEG files the camera reaches the 24 marker at ISO 3200 and only 20 at ISO 12,800.

27/30



Having recorded 10fps sequences all morning using the 70-400mm SSM f/4-5.6 lens, I found the continuous AF works well, with roughly eight out of ten frames, including all in this sequence, having acceptable focus

Below left: Skin tones are accurate and sharpness is impressive in this image recorded with the Sony Alpha 57 and 16-50mm f/2.8 lens

LCD, VIEWFINDER AND VIDEO

A 3in articulated LCD screen is included on the Sony Alpha 57, with a resolution of 921,000 dots. It is movable from a hinge at the bottom of the camera. The screen is clear, with a high-contrast display. Unlike DSLRs, the fixed mirror allows constant exposure of the sensor to light and an uninterrupted use of live view, which in DSLRs is disrupted temporarily during a shutter cycle.

As an LCD unit rather than the OLED type found in the Alpha 65 and Alpha 77, the EVF's display is not as bright and has less contrast. Compared to others at this price point, however, the Alpha 57's EVF stands up well. Focus magnify at 4.8x and 9.5x magnification make the viewfinder and EVF even more useful, especially when combined with peaking to indicate the point of focus.

Video files can be recorded in AVCDH2 format at a class-leading 50fps and 25fps.

8/10

Verdict

IT IS a year and a half since the Sony Alpha 55 hit the market, and the Sony Alpha 57 is more of a refresh than a new model. However, there are enough features to separate it from the entry-level Alpha 35, particularly the angled LCD screen, improved EVF and wider ISO range.

The Alpha 57 stands up well against the competition. In several areas its features are class-leading at this price point, and the camera is very capable of producing crisp images with bold colours. If the choice comes down to the Alpha 57 and Alpha 65, it is definitely worth spending a little extra for the improved sensor and viewfinder of the more expensive model, but there is no denying that at its price point the Alpha 57 provides value for money.

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| FEATURES | 8/10 | | | | | | | | | |
| BUILD/HANDLING | 8/10 | | | | | | | | | |
| NOISE/RESOLUTION | 27/30 | | | | | | | | | |
| DYNAMIC RANGE | 8/10 | | | | | | | | | |
| AWB/COLOUR | 8/10 | | | | | | | | | |
| METERING | 8/10 | | | | | | | | | |
| AUTOFOCUS | 8/10 | | | | | | | | | |
| LCD/VIEWFINDER | 8/10 | | | | | | | | | |

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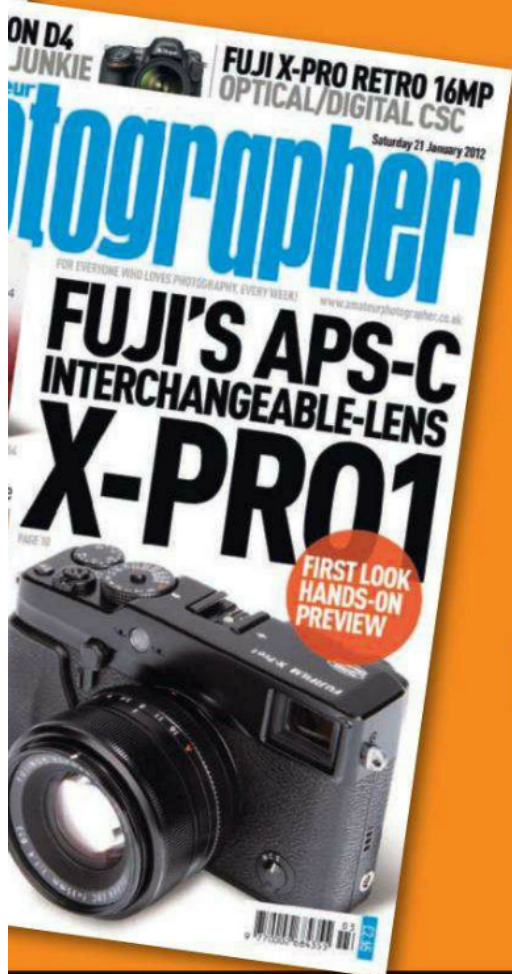
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Professor
Newman
explains...

The science of colour space

Descriptions of how colour is 'perceived' are made impenetrable by complex theories and language. **Professor Bob Newman** presents a more accessible overview

THE SUBJECT of colour in photography is one of those areas that is circumscribed by almost mystical knowledge and impenetrable theory. The reason for this is that the precise mathematical description of colour perception is a complex multivariate problem. Taken with the biological science on which it is based, there is a host of terms and translations to get to grips with. It's small wonder, then, that many photographers prefer to abandon the science and use the vernacular of the artist, describing colour as 'rich', 'vibrant' and 'subtle'.

The purpose of this article is to provide an overview of the science without becoming engulfed in mathematics, so the reader may be able to take control of their colour to achieve the results that they want, be they vibrant or subtle.

PERCEPTUAL COLOUR

The CIE (International Commission on Illumination) undertook a programme of

research into colour vision back at the dawn of colour reprographics in 1931. This was based on biological research, the structure of the human eye and perceptual experiments involving a large number of people. What emerged was a standardised model of human colour vision. It's worth remembering that this is a generalisation across humanity because individual colour vision varies, but for the vast majority of people it will fit closely to this CIE model.

Human colour vision depends on the response of the four different photoreceptors in the human eye. These are the rods, which are panchromatic or 'luminance sensors', and the colour sensors, the cones, which have a more selective response that can broadly be termed 'red', 'green' and 'blue'. It is important to understand that light has no colour, merely a wavelength. The cones detect light over a waveband, and light within that waveband will be seen as the colour associated with that group of cones. Light that excites two (or three) groups of cones will be seen as

an 'in between colour', so light giving an equal excitation of red and green will be seen as yellow. Every colour we see can be described as a combination of stimulus of the three colour receptors, or described as a 'tristimulus' value. There are many possible ways of associating tristimulus values with a set of perceived colours, and each way is defined by a colour space.

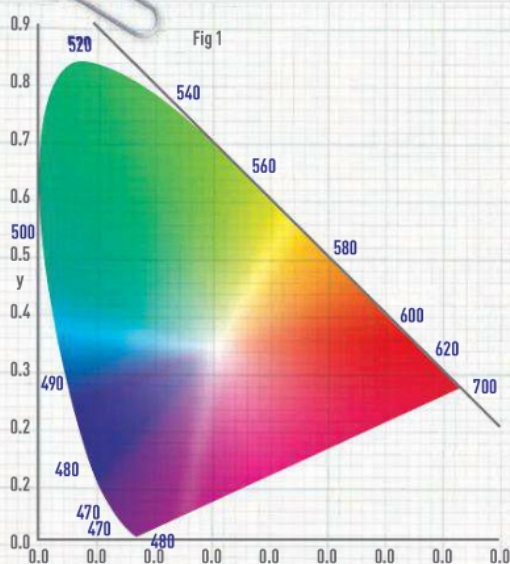
The CIE produced normalised responses representing the population norms of cone response. However, the response of the three types of cones overlap each other, defining a colour space that seems to use negative values for each colour.

To overcome this problem, the CIE defined a scheme using a set of primaries that were called X, Y and Z. Broadly, X corresponds to the eye's luminance response, while Z is blue and Y is red (although not identical to eye response). Since Y represents luminance or brightness, it is possible to define chromaticity (or colour separately) using two orthogonal parameters. These are called x and y, and between them they can define every hue that we can see (with Y describing the brightness). The common colour gamut diagrams, such as figure 1 showing the full XYZ gamut, are defined on a graph with 'x' and 'y' as axes. This is the well-known CIE xy chromaticity diagram, often used to illustrate the gamut of different colour spaces, and the associated colour space is the xyY space.

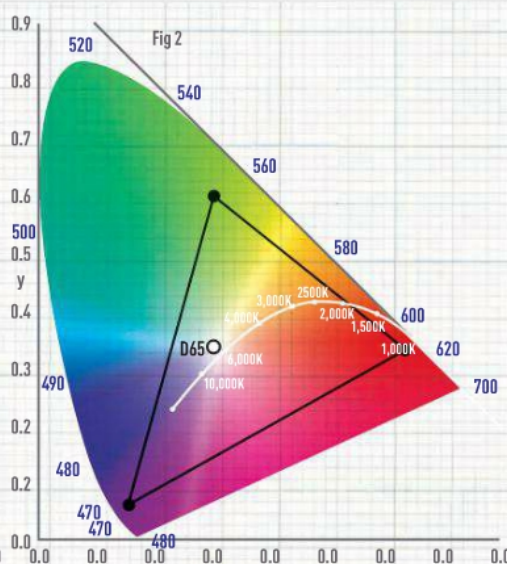
CAPTURE, WORKING AND OUTPUT SPACES

Things would be simpler if cameras recorded colour directly according to the CIE XYZ responses. In practice, they don't. The main reason for this is that it is easier to engineer non-standard colour channels. The colour receptivity of a photographic sensor depends either on the absorption properties of chemical dyes (Bayer CFA sensors or colour film) or on some other physical property, such as the absorption depth of different energy photons in silicon (Foveon sensors). In either case, this produces a response that more or less accurately replicates the nominal XYZ response. It is rarely an exact replication.

Furthermore, sometimes the designers may deliberately choose to not replicate the XYZ response, one example being the change that Canon made to its colour filter properties with the EOS 50D/5D Mark II camera generation. By modifying the 'red' filter in the array to accept more green light – in effect, changing the red-green-blue filter pack into a yellow-green-blue



The CIE xy chromaticity diagram shows every hue that the normalised human colour vision defined by the CIE can perceive. x and y are the parameters in the xyY space that define colour. The third, Y, defines brightness and is not shown in this diagram



The sRGB is designed for computer output devices and define a relatively limited colour space. sRGB is suitable for computer monitors and TVs

'Over the years, different colour spaces have been defined for different purposes'

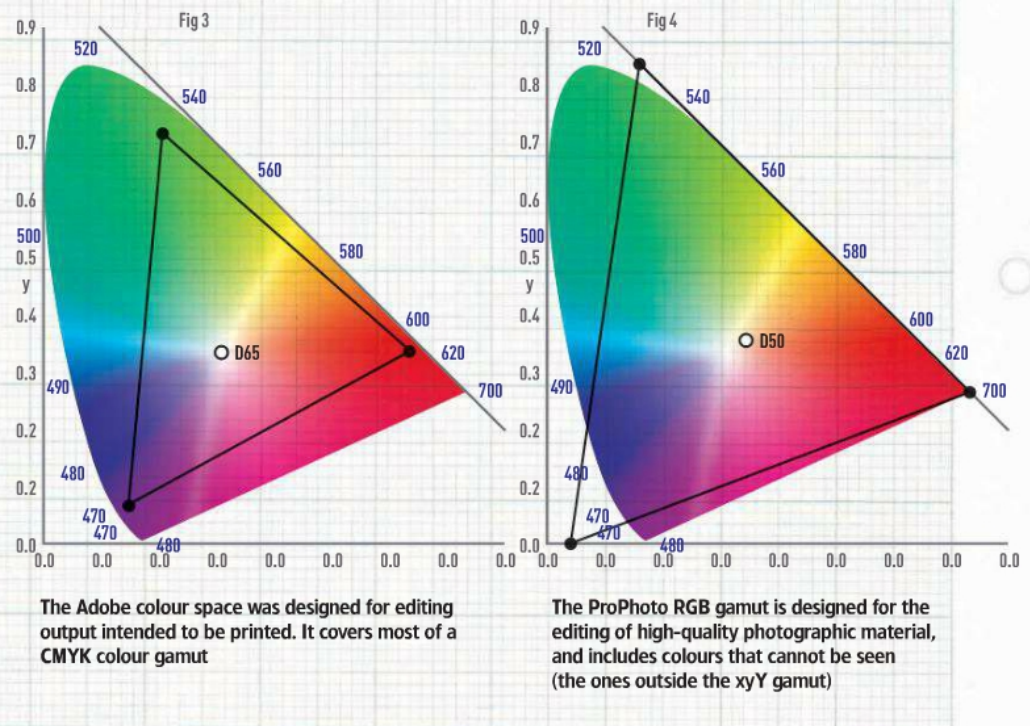
pack – it was possible to make the sensor receive more light overall and thus increase its efficiency. The cost was a shift in the balance of noise towards the arguably more intrusive 'chroma' noise, for reasons that will become apparent.

At some stage the response of the working colour space will need to be produced. This is done by a process of matrix transformation. If the response of the camera's filter pack is known, then the response of a theoretical XYZ filter pack to the incident light can be responded by mixing appropriate quantities of the camera's red, blue and green response.

For instance, taking the case of the Canon filter pack discussed previously, the red filter admits more green light than the XYZ 'green' should, thus to duplicate the XYZ filter it is necessary to subtract a portion of the camera's green channel from the red signal and then multiply the resultant mix to bring the signal up to the level required for the standard XYZ response. The net result is that the final 'red' response is calculated from a relatively weak 'red' signal, which will need to be multiplied to a greater extent to produce a greater amount of red-coloured noise in the final image. This colour-mapping process can only work to a certain extent as the camera may not be able to record all the colours defined by the XYZ model. The total range of colours that can be recorded by a camera (or output device) is called its colour gamut.

Additionally, it can be the case that a mix of the camera's responses maps to more than one XYZ colour, or vice versa. In this situation, it is possible that the multiple mappings, called metameters, may cause the resultant colour to be visibly different from the recorded one.

Output devices also have a restricted gamut. There is little point asking a printer or monitor to reproduce a colour if it is incapable of doing so. The colours outside the printers' gamut are simply wasted information. It is better to encode the colours that are available more accurately than encode colours that will be impossible to reproduce. For this reason, it makes sense when editing a photograph to do so using a gamut that closely corresponds to the capabilities of the output medium. Standardised gamuts exist that are defined with reference to the full CIE XYZ gamut.



POPULAR COLOUR SPACES

Over the years, different colour spaces have been defined for different purposes. Here are a few that you might meet:

sRGB, which defines the colour information in JPEG files, was created in 1996 by Microsoft and HP and is the default space used on the internet and JPEG files. It has a fairly restricted gamut, due to the then limited output gamut of these devices.

Adobe RGB was developed by Adobe in 1997 as an RGB space for editing intended printed output. It has a wider gamut than sRGB and can cover most of the printers' CMYK colour space (which is what is used by most computer printers).

Pro Photo RGB is a very wide gamut space developed by Kodak for high-quality photographic work.

LAB, or more accurately CIELAB, is a colour space based on CIE XYZ that covers its whole gamut, but is organised as a 'colour opponent' space – that is, its co-ordinates record the differences between channels. It forms a useful intermediate for colour translations and also some interesting properties for editing. 'L' stands for 'lightness', which is similar to 'luminance', so images in LAB can have separate operations applied to luminance and chrominance information.

CMYK is not strictly a colour space. Cyan, Magenta, Yellow, black is the colour model used for most printers, based on subtractive inks or pigments.

COLOUR WORKFLOW

I know some people who treat the use of a large colour space almost as an indicator of virility! In the real world, there is no point

editing in a colour space that exceeds the colour space of the output medium, since you risk creating colours that the output medium cannot reproduce. Thus, your workflow will usually reflect the output medium, often sRGB for display work and Adobe RGB for prints. If you are producing work that may be displayed in either, it makes sense to do the major editing in the wider gamut, then convert and refine for the narrower one. Some editing operations will include a conversion into LAB and back again. One example is hand-crafted noise reduction. By converting to LAB, chrominance and luminance noise can be tackled separately, before recombining to the original colour space. **AP**



BOB NEWMAN originally trained as a physicist, and is now an engineer and computer scientist with a PhD in real-time systems design. He has been working with the design and development of high-technology equipment for 35 years and has been responsible for innovative developments in graphics workstations, avionics, marine instruments and radar systems. Two of his products have won innovation awards. Bob has led research projects in design methodology, automotive technology and, more recently, sensing systems. He is currently Professor of Computer Science at the University of Wolverhampton. Bob is a camera nut and has been a keen amateur photographer from the age of seven. He is delighted to be given the opportunity to apply his professional expertise to his hobby.



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D5100 + 18-55mm VR + 55-200mm **£759.29**

CUSTOMER REVIEW: D5100 + 18-55mm VR
★★★★☆ 'Ideal for holidays', 'versatile'
Lionheart - Surrey

Nikon

D300s

12.3 megapixels
7.0 fps
720p movie mode

SAVE **£400** ON RRP

D300s From **£1099**

D300s Body RRP £1499.99 **£1099**

RECOMMENDED D300s ACCESSORIES:
Nikon EN EL3e Lithium Ion Battery **£54.95**
Nikon MB D10 Battery Grip **£279**

CUSTOMER REVIEW: D300s + 16-85mm VR
★★★★☆ 'The perfect combo for a Prosumer'
Robin - Bristol

Nikon **D800 & D800E**

- Full Frame FX Format CMOS Sensor
- 36.3 Megapixels
- Multi-area D-Movie records Full 1080p HD movies (FX & DX Format)
- ISO 50-25,600

NEW! D800 Body **£2599**
NEW! D800E Body + Capture NX2 **£2899**
Save 10% on a MB-D12 Battery Grip when you purchase a D800 or D800E††

RECOMMENDED D800/D800E ACCESSORIES:
Nikon MB-D12 Battery Grip **£379**
(£341.10 when you purchase with a D800 or D800E)
Nikon MC-36 Remote Control **£129.95**
Nikon EN EL15 Battery Pack **£59**

††While stocks last
Note: Battery Grip & Lens available separately

NEW! D800 Body **PRE-ORDER From £2599**

Nikon

D3x

24.5 megapixels
7.0 fps
full frame CMOS sensor

D3x From **£5039**

D3x Body **£5039**

CUSTOMER REVIEW: D3x Body
★★★★☆ 'As good as it gets'
Peteringreot - Kent

Nikon Capture NX2 **£132.99**
Nikon Capture NX2 Upgrade (Capture NX required) **£81.99**

Nikon

D4

16.2 megapixels
11.0 fps
full frame CMOS sensor

NEW!

NEW! D4 From **£5289**

NEW! D4 Body **£5289**

RECOMMENDED D4 ACCESSORIES:
Nikon AN-DC7 Strap **£24.99**
Nikon MC-36 Remote Control **£129.95**
Nikon EN EL18 Battery Pack **£129**
Nikon SB910 Speedlight **£369**
Nikon ME-1 Stereo Microphone **£99.99**
Nikon GP-1 GPS Module **£199.95**
Nikon WT-5 Wireless Transmitter **£649**

SONY

NEX-5N Silver or Black **NEW!**

16.1 megapixels
10.0 fps

NEX-7 Black **NEW!**

24.3 megapixels
12.0 fps
1080p movie mode

NOW IN STOCK!

NEX-5N Body **£449**

NEX-5N + 18-55mm **£509**
NEX-5N + 16mm + 18-55mm **£599**
NEX-5N + 18-55mm + 55-210mm **£749**
NEW! NEX-7 Body (Black) **£995**
NEW! NEX-7 + 18-55mm (Black) **£1092**

NEW! A7 Body **£619**
NEW! A7 + 18-55mm **£695**
NEW! A7 + 18-55mm + 55-200mm **£859** A7

RECOMMENDED ACCESSORIES:
Sony VG-C77AM Vertical Battery Grip **£279**
Sony NP-FM500H Battery **£68**

A77

24.3 megapixels
12.0 fps
1080p movie mode

A77 DSLT From **£998**

A77 Body **£998**
A77 + 16-50mm RRP **£1599** **£1479**

RECOMMENDED ACCESSORIES:
Sony VG-C77AM Vertical Battery Grip **£279**
Sony NP-FM500H Battery **£68**

Panasonic

GF3 Red, Black or White

12.1 megapixels
3.5 fps
1080i movie mode

GF3 From **£299.95**

GF3 Body (Black) **£299.95**
GF3 + 14-42mm **£373**
GF3 + 14mm (Black or White) **£409**
GF3X + 14-42mm (Black or White) **£529**

G3

16.0 megapixels
4.0 fps
1080i movie mode

G3 From **£409**

G3 Body (Black) **£409**
G3 + 14-42mm **£469**
G3 + 14-42mm + 45-200mm **£679.95**

GX1 Black or Silver

16.0 megapixels
20.0 fps
1080p movie mode

GX1 From **£445**

GX1 Body **£445**
GX1 + 14-42mm (Black) **£479**
GX1 + 14-42mm Power Zoom Lens **£599**

OLYMPUS

E-P3 White, Silver or Black

12.3 megapixels
3.0 fps
1080i movie mode

E-P3 Body **£599**

E-P3 + 14-42mm f3.5-5.6 ED **£679**
E-P3 + 17mm f2.8 Pancake **£689**
E-P3 + 14-42mm + 40-150mm **£799**
E-P3 + 14-150mm f4.0-5.6 ED **£939**

E-PM1 Silver, Black, Brown, Silver-Rose, Purple or White

12.3 megapixels
5.5 fps
1080i movie mode

E-PM1 + 14-42mm II **£356**
E-PM1 + 14-42mm II + 40-150mm **£479**

RECOMMENDED ACCESSORY
VF-3 Silver External Electronic Viewfinder **£179.99**

OM-D E-M5 Silver or Black

16.1 megapixels
9.0 fps
1080p movie mode

NEW! E-M5 **PRE-ORDER NOW!**

NEW! E-M5 Body **£999**
NEW! E-M5 + 12-50mm **£1149**

RECOMMENDED ACCESSORY
Olympus Digital SLR E-5 Body **£1338**

SIGMA

SD15

14.1 megapixels
3.0 fps

SD15 Body **£584.99**

RECOMMENDED ACCESSORIES:
Sigma CR21 Cable Release **£24.99**
Sigma RS31 Remote Control **£24.99**
SanDisk 8GB Extreme Pro 95MB/Sec SDHC Card **£39**
Sigma PG-21 Power Grip **£169.99**
Sigma EF 610 DG Super **£209.99**
NEW! SD1 Merrill Body **£1839**

PENTAX

K-01 **NEW!**

16.0 megapixels
6.0 fps
1080p movie mode

NEW! K-01 From **£599**

NEW! K-01 Body **£599**
NEW! K-01 + 40mm **£679**
NEW! K-01 + 18-55mm **£679**
K-5 Body **£698**
K-5 + 18-55mm **£729**
K-5 + 18-55mm + 50-200mm **£899**
K-5 + 18-135mm **£1069**
K-5 + 40mm (Special Edition) **£1399**

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X-Pro1 **NEW!**

16.3 megapixels
6.0 fps
1080p movie mode

NEW! X-Pro1 **£1429**

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- APS-C 16M "X-Trans CMOS" Sensor tackles moiré at its root cause

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Canon EOS 1100D 18.0 megapixels 3.7 fps 1080p movie mode

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1100D Body RRP £419 **£305**
 1100D + 18-55mm f3.5-5.6 IS II RRP £499 **£384**

Canon EOS 600D 18.0 megapixels 3.7 fps 1080p movie mode

WIN Tickets to UEFA EURO 2012**

600D Body RRP £534 **£534**
 600D + 18-55mm f3.5-5.6 IS II RRP £596 **£596**
 600D + 18-135mm f3.5-5.6 IS RRP £761 **£761**
 600D + 18-55mm II + 55-250mm f4.0-5.6 IS II RRP £805 **£805**

CUSTOMER REVIEW: 1100D + 18-55mm II
 ★★★★★ 'Great for a novice looking to improve' Liz - South West

CUSTOMER REVIEW: 600D + 18-135mm IS
 ★★★★★ 'An excellent product' Whelan - Suffolk

Canon EOS 7D 18.0 megapixels 8.0 fps 1080p movie mode

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7D Body **£1098**
 7D + 18-135mm f3.5-5.6 IS RRP £1999.99 **£1346**
 7D + 15-85mm f3.5-5.6 IS USM RRP £2399.99 **£1689**
 7D + 70-300mm f4.0-5.6 IS USM RRP £2899.99 **£2220**

CUSTOMER REVIEW: 7D + 15-85mm
 ★★★★★ 'Probably the best APS-C DSLR around' Shuggie - Scotland

Canon NEW! EOS 5D Mark III

• 61 point AF with 41 cross type sensors
 • ISO standard: 100-25,600 (expandable from 50-102,400)

5D Mark III Body **£2999**
 5D Mark III + 24-105mm f4.0 L IS USM **£3689**
 5D Mark III + 24-70mm f2.8 L USM II **£5298**

5D Mark III RECOMMENDED ACCESSORIES:
 Canon GP-E2 GPS Receiver **£299**
 Canon ST-E3-RT Speedlite Transmitter **£309**
 Canon BG-E11 Battery Grip **£329**
 Canon 600EX-RT Flashgun **£679**
 Canon WFT-E7B Wireless Transmitter **£789**

5D Mark II Body **£1659**
 5D Mark II + 24-105mm f4.0 L IS USM **£2257**

NEW! 5D Mark III PRE-ORDER From **£2999**

★★★★★ CUSTOMER PRODUCT REVIEWS ★★★★★
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CUSTOMER REVIEW: 5D Mark II + 24-105mm f4L IS USM
 ★★★★★ 'Awesome IQ and ISO Performance' J.Dartington - Cheshire

Canon EOS 550D 18.0 megapixels 3.7 fps 1080p movie mode

AS SEEN ON TV

550D Body RRP £799.99 **£464**
 550D + 18-55mm f3.5-5.6 IS RRP £899.99 **£545**
 550D + 18-135mm f3.5-5.6 IS RRP £1099.99 **£699**
 550D + 18-55mm f3.5-5.6 IS + 55-250mm f4.0-5.6 IS RRP £1199.99 **£729**

Canon EOS 60D 18.0 megapixels 5.3 fps 1080p movie mode

WIN Tickets to UEFA EURO 2012**

60D Body RRP £1049.99 **£784**
 60D + 18-55mm f3.5-5.6 IS II RRP £1149.99 **£849**
 60D + 18-135mm f3.5-5.6 IS RRP £1299.99 **£969**
 60D + 17-85mm f4.0-5.6 IS USM RRP £1349.99 **£995**
 60D + 17-55mm f2.8 IS USM RRP £1949.99 **£1539**

CUSTOMER REVIEW: 60D Body
 ★★★★★ 'Wow, an amazing camera' Adrian - UK

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Canon 1D Mark IV 16.1 megapixels 10.0 fps 1080p movie mode

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1D Mk IV From **£3492**

Canon 1D X 18.1 megapixels 12.0 fps full frame CMOS sensor

NEW! 1D X Body PRE-ORDER **£5299**

CUSTOMER REVIEW: 1D Mark IV Body
 ★★★★★ 'Stunning camera' Zurg - South Wales

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Macroflashes: SB400 **£124.99**, SB700 **£239**, SB910 **£369**

Nikon Speedlights: R1 Close-Up **£417.99**, R1C1 **£599.99**

Kits: HVL-F58AM **£399**, HVL-F43AM **£241.99**

OLYMPUS Flashguns: FL-50R **£459.99**, FL-36R **£222.99**

Ringflash: AF 540FGZ **£249.99**, AF 360FGZ **£249.99**, DRF14 **£119**

Flashguns: 24 AF-1 **£54.95**, 44 AF-1 **£129**, 50 AF-1 **£180**, 58 AF-2 **£285**

Macro flash: 15 MS-1 **£295.99**

SIGMA Flashguns: EF 610 DG ST **£129.99**, EF 610 DG Super **£209.99**

Nissen Flashguns: EM-140 DG Macro Flash From **£314.99**

SUNPAK Flashguns: DI466 **£81.99**, DI622 II **£119**, DI866 **£199**

Ringflash: P242X **£119.99**, PF30X **£81.99**, 16R Pro **£337.99**

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| TS-E 24mm f3.5 L II..... | £1699.90 |
| EF 28mm f1.8 USM..... | £382.99 |
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| EF 35mm f2.0..... | £217.90 |
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| EF 50mm f1.4 USM..... | £285 |
| EF 50mm f1.8 II..... | £88.95 |
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| EF 65mm f2.8 1-Sx Macro..... | £844 |
| EF 85mm f1.2 L II USM..... | £1725 |
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| EF 100mm f2.8 L IS USM Macro..... | £709 |
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| EF 180mm f3.5 L USM Macro..... | £1249.99 |
| EF 200mm f2.8 L USM II..... | £619 |
| EF 300mm f2.8 L IS USM II..... | £5498 |
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| EF 600mm f4.0 L IS USM II..... | £1099.99 |
| EF 800mm f5.6 L IS USM..... | £1029.95 |
| EF 8-15mm f4.0 L USM Fisheye..... | £1149 |
| EF 8-15mm f4.0 L USM Fisheye..... | £639 |
| EF 15-85mm f3.5-5.6 IS USM..... | £599 |
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EF 24-70mm f2.8 L USM II.....

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SIGMA LENSES

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| 50mm f2.8 EX DG Macro..... | £269 |
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T5431/5432/5433/5434/5435/5436/5437/5438/5439/5440/5441/5442/5443/5444/5445/5446/5447/5448/5449/5450/5451/5452/5453/5454/5455/5456/5457/5458/5459/5460/5461/5462/5463/5464/5465/5466/5467/5468/5469/5470/5471/5472/5473/5474/5475/5476/5477/5478/5479/5480/5481/5482/5483/5484/5485/5486/5487/5488/5489/5490/5491/5492/5493/5494/5495/5496/5497/5498/5499/5500/5501/5502/5503/5504/5505/5506/5507/5508/5509/5510/5511/5512/5513/5514/5515/5516/5517/5518/5519/5520/5521/5522/5523/5524/5525/5526/5527/5528/5529/5530/5531/5532/5533/5534/5535/5536/5537/5538/5539/5540/5541/5542/5543/5544/5545/5546/5547/5548/5549/5550/5551/5552/5553/5554/5555/5556/5557/5558/5559/5560/5561/5562/5563/5564/5565/5566/5567/5568/5569/5570/5571/5572/5573/5574/5575/5576/5577/5578/5579/5580/5581/5582/5583/5584/5585/5586/5587/5588/5589/5590/5591/5592/5593/5594/5595/5596/5597/5598/5599/5600/5601/5602/5603/5604/5605/5606/5607/5608/5609/5610/5611/5612/5613/5614/5615/5616/5617/5618/5619/5620/5621/5622/5623/5624/5625/5626/5627/5628/5629/5630/5631/5632/5633/5634/5635/5636/5637/5638/5639/5640/5641/5642/5643/5644/5645/5646/5647/5648/5649/5650/5651/5652/5653/5654/5655/5656/5657/5658/5659/5660/5661/5662/5663/5664/5665/5666/5667/5668/5669/5670/5671/5672/5673/5674/5675/5676/5677/5678/5679/5680/5681/5682/5683/5684/5685/5686/5687/5688/5689/5690/5691/5692/5693/5694/5695/5696/5697/5698/5699/5700/5701/5702/5703/5704/5705/5706/5707/5708/5709/5710/5711/5712/5713/5714/5715/5716/5717/5718/5719/5720/5721/5722/5723/5724/5725/5726/5727/5728/5729/5730/5731/5732/5733/5734/5735/5736/5737/5738/5739/5740/5741/5742/5743/5744/5745/5746/5747/5748/5749/5750/5751/5752/5753/5754/5755/5756/5757/5758/5759/5760/5761/5762/5763/5764/5765/5766/5767/5768/5769/5770/5771/5772/5773/5774/5775/5776/5777/5778/5779/5780/5781/5782/5783/5784/5785/5786/5787/5788/5789/5790/5791/5792/5793/5794/5795/5796/5797/5798/5799/5800/5801/5802/5803/5804/5805/5806/5807/5808/5809/5810/5811/5812/5813/5814/5815/5816/5817/5818/5819/5820/5821/5822/5823/5824/5825/5826/5827/5828/5829/5830/5831/5832/5833/5834/5835/5836/5837/5838/5839/5840/5841/5842/5843/5844/5845/5846/5847/5848/5849/5850/5851/5852/5853/5854/5855/5856/5857/5858/5859/5860/5861/5862/5863/5864/5865/5866/5867/5868/5869/5870/5871/5872/5873/5874/5875/5876/5877/5878/5879/5880/5881/5882/5883/5884/5885/5886/5887/5888/5889/5890/5891/5892/5893/5894/5895/5896/5897/5898/5899/5900/5901/5902/5903/5904/5905/5906/5907/5908/5909/5910/5911/5912/5913/5914/5915/5916/5917/5918/5919/5920/5921/5922/5923/5924/5925/5926/5927/5928/5929/5930/5931/5932/5933/5934/5935/5936/5937/5938/5939/5940/5941/5942/5943/5944/5945/5946/5947/5948/5949/5950/5951/5952/5953/5954/5955/5956/5957/5958/5959/5960/5961/5962/5963/5964/5965/5966/5967/5968/5969/5970/5971/5972/5973/5974/5975/5976/5977/5978/5979/5980/5981/5982/5983/5984/5985/5986/5987/5988/5989/5990/5991/5992/5993/5994/5995/5996/5997/5998/5999/6000/6001/6002/6003/6004/6005/6006/6007/6008/6009/6010/6011/6012/6013/6014/6015/6016/6017/6018/6019/6020/6021/6022/6023/6024/6025/6026/6027/6028/6029/6030/6031/6032/6033/6034/6035/6036/6037/6038/6039/6040/6041/6042/6043/6044/6045/6046/6047/6048/6049/6050/6051/6052/6053/6054/6055/6056/6057/6058/6059/6060/6061/6062/6063/6064/6065/6066/6067/6068/6069/6070/6071/6072/6073/6074/6075/6076/6077/6078/6079/6080/6081/6082/6083/6084/6085/6086/6087/6088/6089/6090/6091/6092/6093/6094/6095/6096/6097/6098/6099/6100/6101/6102/6103/6104/6105/6106/6107/6108/6109/6110/6111/6112/6113/6114/6115/6116/6117/6118/6119/6120/6121/6122/6123/6124/6125/6126/6127/6128/6129/6130/6131/6132/6133/6134/6135/6136/6137/6138/6139/6140/6141/6142/6143/6144/6145/6146/6147/6148/6149/6150/6151/6152/6153/6154/6155/6156/6157/6158/6159/6160/6161/6162/6163/6164/6165/6166/6167/6168/6169/6170/6171/6172/6173/6174/6175/6176/6177/6178/6179/6180/6181/6182/6183/6184/6185/6186/6187/6188/6189/6190/6191/6192/6193/6194/6195/6196/6197/6198/6199/6200/6201/6202/6203/6204/6205/6206/6207/6208/6209/6210/6211/6212/6213/6214/6215/6216/6217/6218/6219/6220/6221/6222/6223/6224/6225/6226/6227/6228/6229/6230/6231/6232/6233/6234/6235/6236/6237/6238/6239/6240/6241/6242/6243/6244/6245/6246/6247/6248/6249/6250/6251/6252/6253/6254/6255/6256/6257/6258/6259/6260/6261/6262/6263/6264/6265/6266/6267/6268/6269/6270/6271/6272/6273/6274/6275/6276/6277/6278/6279/6280/6281/6282/6283/6284/6285/6286/6287/6288/6289/6290/6291/6292/6293/6294/6295/6296/6297/6298/6299/6300/6301/6302/6303/6304/6305/6306/6307/6308/6309/6310/6311/6312/6313/6314/6315/6316/6317/6318/6319/6320/6321/6322/6323/6324/6325/6326/6327/6328/6329/6330/6331/6332/6333/6334/6335/6336/6337/6338/6339/6340/6341/6342/6343/6344/6345/6346/6347/6348/6349/6350/6351/6352/6353/6354/6355/6356/6357/6358/6359/6360/6361/6362/6363/6364/6365/6366/6367/6368/6369/6370/6371/6372/6373/6374/6375/6376/6377/6378/6379/6380/6381/6382/6383/6384/6385/6386/6387/6388/6389/6390/6391/6392/6393/6394/6395/6396/6397/6398/6399/6400/6401/6402/6403/6404/6405/6406/6407/6408/6409/6410/6411/6412/6413/6414/6415/6416/6417/6418/6419/6420/6421/6422/6423/6424/6425/6426/6427/6428/6429/6430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Winners of the Amateur Photographer 2011 GOLD "Good Service Award"

MEMORY

Transcend

Compact Flash

| | | |
|-------------|--------|--------|
| 2GB 20MB/s | £14.99 | £8.99 |
| 4GB 20MB/s | £19.99 | £10.99 |
| 8GB 20MB/s | £24.99 | £12.99 |
| 16GB 20MB/s | £54.99 | £26.99 |

SD Cards

| | | |
|---------------|--------|--------|
| 2GB | £3.99 | £3.99 |
| 4GB Class 10 | £9.99 | £6.99 |
| 8GB Class 10 | £29.99 | £9.99 |
| 16GB Class 10 | £49.99 | £19.99 |

USB Pen Drives

| | | |
|----------------|--------|--------|
| 2GB Transcend | £8.99 | £4.69 |
| 4GB Transcend | £11.99 | £4.99 |
| 8GB Transcend | £19.99 | £8.99 |
| 16GB Transcend | £34.99 | £16.99 |

Lexar

Compact Flash

| | | |
|-------------|---------|--------|
| 8GB 60MB/s | £146.46 | £38.99 |
| 8GB 60MB/s | £177.38 | £47.99 |
| 16GB 60MB/s | £204.25 | £68.99 |
| 16GB 90MB/s | £271.30 | £94.99 |

SD Cards

| | | |
|---------------|---------|--------|
| 8GB Class 10 | £70.46 | £21.99 |
| 16GB Class 10 | £130.73 | £40.99 |

SanDisk

Sandisk Ultra 30MB/s

| | | |
|-------------|--------|--------|
| 4GB 30MB/s | £21.76 | £14.99 |
| 8GB 30MB/s | £36.12 | £23.99 |
| 16GB 30MB/s | £70.06 | £46.99 |

Sandisk Extreme 40&60MB/s

| | | |
|-------------|---------|---------|
| 4GB 60MB/s | £36.34 | £21.99 |
| 8GB 60MB/s | £67.02 | £38.99 |
| 16GB 60MB/s | £116.19 | £68.99 |
| 32GB 60MB/s | £208.89 | £134.99 |

Sandisk Blue C2: 5MB/s

| | | |
|-----------|--------|--------|
| 2GB 5MB/s | £8.27 | £4.99 |
| 4GB 5MB/s | £12.41 | £6.49 |
| 8GB 5MB/s | £21.10 | £11.99 |

Sandisk Ultra C4: 15MB/s

| | | |
|-------------|--------|--------|
| 2GB 15MB/s | £9.57 | £5.99 |
| 4GB 15MB/s | £15.66 | £7.99 |
| 8GB 15MB/s | £27.85 | £14.99 |
| 16GB 15MB/s | £57.22 | £28.99 |

Sandisk Extreme C10: 30MB/s

| | | |
|-------------|--------|--------|
| 4GB 30MB/s | £21.33 | £11.99 |
| 8GB 30MB/s | £37.42 | £18.99 |
| 16GB 30MB/s | £52.92 | £27.99 |
| 32GB 30MB/s | £92.02 | £49.99 |

Sandisk Extreme Pro UHS-I: 45MB/s

| | | |
|-------------|---------|--------|
| 8GB 45MB/s | £54.84 | £27.49 |
| 16GB 45MB/s | £103.58 | £58.99 |

xD Picture Cards

| | | |
|-------------|--------|--------|
| 2GB Olympus | £24.99 | £14.99 |
|-------------|--------|--------|

Batteries & Chargers

Standard Rechargeables

High-power Ni-MH rechargeable AA and AAA batteries - all sold in packs of 4.

| | |
|----------------------|--------|
| AAA 1000mAh Duracell | £6.99 |
| AAA 2450mAh Duracell | £6.99 |
| AA 2700mAh GP | £9.99 |
| AA 2850mAh Ansmann | £13.99 |
| AA 2900mAh Duracell | £14.99 |

ReCyko+ Rechargeables

New technology, combining the benefits of alkaline and Ni-MH rechargeable batteries. They come pre-charged, retain 90% of their charge after 6 months, and last 4 times as long as alkaline batteries!

| | |
|---------------------------|-------|
| AAA 650mAh equivalent (4) | £5.99 |
| AA 2050mAh equivalent (4) | £7.99 |

Ultimate Lithium

Enviroment Ultimate Lithium: The longest lasting AA and AAA batteries in the world!

| | |
|--------------------------|-------|
| AAA Ultimate Lithium (4) | £6.99 |
| AA Ultimate Lithium (4) | £7.99 |

Batteries & Chargers

Universal Charger

The NEW Hahnel Universal Charger is able to charge AA, AAA, Li-ion batteries, cameras, phones, iPods and more. 12V car charger. Full details on our website.

Dedicated Charger

A dedicated Li-ion charger, able to charge most camera batteries. Mains cable, plus 12V car charger.

Coin Cells, etc

A comprehensive range of specialist batteries - see our website for full range.

| | |
|------------------------------|-------|
| CR123A Energizer Lithium (1) | £1.99 |
| CR2 Energizer Lithium (1) | £3.99 |
| CR2 Energizer Lithium (1) | £3.99 |
| CRV3 Energizer Lithium (1) | £1.99 |
| LR44 Energizer Lithium (2) | £1.99 |
| CR2025, CR2032 etc | £1.99 |

Full range of coin cells in stock

BATTERIES

Camera Batteries

A comprehensive range of rechargeable Li-ion batteries. Manufactured by respected independent battery manufacturers Energizer and Blumax. All batteries come with a 2 year guarantee.

NB-1L for Canon £9.99

NB-2L/LH for Canon £9.99

NB-3L for Canon £9.99

NB-4L for Canon £9.99

NB-5L for Canon £9.99

NB-6L for Canon £9.99

NB-7L for Canon £12.99

NB-8L for Canon £9.99

NB-9L for Canon £9.99

BP-511 for Canon £12.99

LP-E5 for Canon £12.99

LP-E6 for Canon £29.99

LP-E8 for Canon £15.99

LP-E10 for Canon £12.99

NP40 for Fuji £9.99

NP45 for Fuji £9.99

NP50 for Fuji £9.99

NP60 for Fuji £9.99

NP80 for Fuji £9.99

NP95 for Fuji £9.99

NP140 for Fuji £12.99

NP150 for Fuji £19.99

NP200 for Minolta £9.99

NP400 for Minolta £12.99

EN-EL1 for Nikon £9.99

EN-EL2 for Nikon £9.99

EN-EL3/3A for Nikon £9.99

EN-EL3E for Nikon £15.99

EN-EL5 for Nikon £9.99

EN-EL9 for Nikon £12.99

EN-EL10 for Nikon £9.99

EN-EL11 for Nikon £9.99

EN-EL12 for Nikon £9.99

EN-EL14 for Nikon £12.99

LI108/12B for Olympus £9.99

LI40B/42B for Olympus £9.99

LI50B for Olympus £9.99

BLM-1 for Olympus £12.99

BSL-1 for Olympus £12.99

CGA-S005 for Panasonic £9.99

CGR-S006 for Panasonic £9.99

CGA-S007 for Panasonic £9.99

CGA-S008 for Panasonic £9.99

BCF10E (V3) for Panasonic £19.99

BCG10E (V3) for Panasonic £19.99

BLB13 (V2) for Panasonic £19.99

BMB9 (V2) for Panasonic £24.99

VGB10 (V2) for Panasonic £26.99

D-L18 for Pentax £9.99

D-L150 for Pentax £12.99

SLM-1137D for Samsung £12.99

SLM-1674 for Samsung £9.99

BG-1 for Sony £19.99

NP-FM500H for Sony £19.99

NP-FW50 for Sony £19.99

NP-FW50 for Sony £24.99

Many more batteries in stock!

P-Type Filter System

The P-Type square/rectangular filter system consists of three parts:

- 1) An adapter ring that screws onto the front of your lens
- 2) A filter holder clips onto the ring
- 3) One or more P-Type (84mm wide) filters

P-Type Adapter Rings

| | |
|-------------------|-------|
| 49mm Adapter Ring | £4.99 |
| 52mm Adapter Ring | £4.99 |
| 55mm Adapter Ring | £4.99 |
| 58mm Adapter Ring | £4.99 |
| 62mm Adapter Ring | £4.99 |
| 67mm Adapter Ring | £4.99 |
| 72mm Adapter Ring | £4.99 |
| 77mm Adapter Ring | £4.99 |
| 82mm Adapter Ring | £4.99 |

P-Type Holders

| | |
|---------------------|--------|
| Holder Standard | £5.99 |
| Holder Wide Angle | £9.99 |
| Holder Modular | £9.99 |
| Hood Bellows | £34.99 |
| A to P Type Adapter | £9.99 |

P-Type Bellows Hood

A new design of Bellows Hood that slots into the front slot of a standard P-Type Holder.

P-Type Filter Wallet

A smooth cushioned filter wallet, to protect and store up to 8 P-Type filters.

We also stock Z-Pro (100mm) and A-Type (67mm) filters, holders and adapter rings

P-Type Neutral Density Filter Kit £49.99

Neutral Density filters have a multitude of uses - from increasing detail in landscapes and reducing over-exposed skies, to creating stunning motion scenes by reducing shutter speeds. Here's a kit which includes all the popular ND filters, and everything you need to get started! The kit contains: 1x ND2 Filter, 1x ND4 Soft Graduated Filter, 1x ND4 Filter, 1x ND4 Soft Graduated Filter, 1x P-Type Filter Holder, 1x P-Type Adapter Ring of your choice (49-82mm). Just £49.99 - saving nearly £5 on the individual prices.

LENS HOODS & CAPS

Bayonet-Fit Lens Hoods

A comprehensive range of aftermarket matt black bayonet-fit lens hoods for Canon, Nikon and Sony lenses.

| | |
|---------------------------|--------|
| ES-62 Canon 50/1.8 | £9.99 |
| ES-7111 Canon 50/1.4 | £9.99 |
| ET-60 Canon 75-300/4.5-6 | £9.99 |
| ET-65B Canon 70-300/4.5-6 | £9.99 |
| ET-67 Canon 100/2.8 Macro | £9.99 |
| ET-67B Canon 60/2.8 | £9.99 |
| EW-60 Canon 18-55 IS | £7.99 |
| EW-73 Canon 17-85 IS | £9.99 |
| EW-78B Canon 28-135 IS | £9.99 |
| EW-78 Canon 18-200 IS | £9.99 |
| EW-78E Canon 18-55 IS | £12.99 |
| EW-83E Canon 17-40/4.0 | £12.99 |
| EW-83J Canon 17-55/2.8 | £12.99 |
| HB-25 Nikon 24-85, 24-120 | £12.99 |
| HB-37 Nikon 55-200 VR | £7.99 |
| HB-45 Canon 18-55 VR | £7.99 |
| SH-006 Sony 18-70/3.5-5.6 | £9.99 |
| SH-108 Sony 18-55/3.5-5.6 | £9.99 |

This is just a sample, more in stock!

Screw-Fit Lens Hoods

| | |
|------------------------|--------|
| 52mm Shaped Petal Hood | £6.99 |
| 55mm Shaped Petal Hood | £6.99 |
| 58mm Shaped Petal Hood | £6.99 |
| 62mm Shaped Petal Hood | £7.99 |
| 67mm Shaped Petal Hood | £7.99 |
| 72mm Shaped Petal Hood | £9.99 |
| 77mm Shaped Petal Hood | £9.99 |
| 82mm Shaped Petal Hood | £11.99 |
| 46mm Rubber Hood | £3.99 |
| 52mm Rubber Hood | £3.99 |
| 55mm Rubber Hood | £3.99 |
| 58mm Rubber Hood | £3.99 |
| 62mm Rubber Hood | £4.99 |
| 67mm Rubber Hood | £4.99 |
| 72mm Rubber Hood | £5.99 |
| 77mm Rubber Hood | £5.99 |

Lens Caps

| | |
|--|------------|
| 30mm, 37mm, 40mm, 43mm, 46mm, 49mm, 52mm, 55mm, 58mm, 62mm, 67mm, 72mm, 77mm, 82mm, 86mm, 95mm | £3.99 each |
|--|------------|

We also stock a range of body caps and rear lens caps for Canon, Nikon, Olympus, Sony, Pentax, etc

CLEANING

Sensor Cleaning - DRY

Sensor Loupe 7X with LED £69.99

ZEElon Lens-Static Blower £37.99

SL788 Arctic Butterfly £69.99

Sensor Cleaning - WET

Cleaning Solution (7.5ml) £15.99

Cleaning Swabs (12) £29.99

EZ Kit (1ml Solution, 4 Swabs) £14.99

Massive range of cleaning equipment on our website and in stock.

Camera / Lens Cleaning

Kenair Master Kit £15.99

Kenair Spare Aerosol £9.99

KenPen Optical £9.99

Spudz 6 inch £4.99

Spudz 10 inch £6.99

Kood Hurricane Blower £3.99

Camlink 5-in-1 Clean Kit £4.29

SQUARE FILTERS

WOOD

Japanese Optical Glass Filters

Coated to reduce lens flare and reflections.

UV / Haze Filters

Used both to protect the lens of your camera, and to absorb ultraviolet rays that can cause photos to appear hazy.

| | |
|----------------|--------|
| 46mm UV / Haze | £6.99 |
| 52mm UV / Haze | £6.99 |
| 55mm UV / Haze | £7.99 |
| 58mm UV / Haze | £8.99 |
| 62mm UV / Haze | £11.99 |
| 67mm UV / Haze | £10.99 |
| 72mm UV / Haze | £11.99 |
| 77mm UV / Haze | £14.99 |
| 82mm UV / Haze | £17.99 |
| 86mm UV / Haze | £22.99 |

More sizes in stock, from 24 to 86mm!

Circular Polarising Filters

These remove reflections from surfaces such as glass and water, as well as increasing contrast and saturation.

| | |
|--------------------------|--------|
| 46mm Circular Polarising | £18.99 |
| 52mm Circular Polarising | £19.99 |
| 55mm Circular Polarising | £21.99 |
| 58mm Circular Polarising | £24.99 |
| 62mm Circular Polarising | £27.99 |
| 67mm Circular Polarising | £31.99 |
| 72mm Circular Polarising | £36.99 |
| 77mm Circular Polarising | £41.99 |
| 82mm Circular Polarising | £46.99 |
| 86mm Circular Polarising | £59.99 |

More sizes in stock, from 27 to 86mm!

Neutral Density Filters

Used to reduce the amount of light passing through the lens, reducing shutter speed without affecting colour contrast or balance. Available as ND4 (2 stop) and ND8 (3 stop).

| | |
|----------------|--------|
| 52mm ND4 / ND8 | £11.99 |
| 55mm ND4 / ND8 | £12.99 |
| 58mm ND4 / ND8 | £14.99 |
| 62mm ND4 / ND8 | £17.99 |
| 67mm ND4 / ND8 | £22.99 |
| 72mm ND4 / ND8 | £29.99 |
| 77mm ND4 / ND8 | £34.99 |

More sizes in stock, from 37 to 82mm!

Starburst Filters

These add a dramatic star cross flare to bright light sources, such as streetlights. They also give a slight soft focus effect.

| | |
|-----------------------------|--------|
| 52mm Starburst x4/6/8, each | £11.99 |
| 58mm Starburst x4/6/8, each | £15.99 |
| 67mm Starburst x4/6/8, each | £21.99 |
| 72mm Starburst x4/6/8, each | £27.99 |

More sizes in stock, from 46 to 82mm!

Lens Converters

Ideal for converting your kit lenses to a 2.0X telephoto or 0.5X wide angle lens.

| | |
|-----------------------------|--------|
| 52mm 2.0X or 0.5X converter | £35.99 |
| 55mm 2.0X or 0.5X converter | £37.99 |
| 58mm 2.0X or 0.5X converter | £39.99 |

Light Craft Workshop Filters

Amazing but true - by simply rotating the outer element of the filter, the amount of light passing through the filter can be adjusted from a 2 stop to an 8 stop reduction.

The FaderND filter is constructed from two opposing sheets of polarising glass, the outer sheet mounted in an independently rotating frame. The new Mk II version features both improved optical elements, and a thinner, conical shaped frame to reduce the chance of vignetting.

Also available is the highly acclaimed ND500MC fixed 9-stop filter with ultra-thin frame for wide angle photography.

FaderND MkII (2-8 stop)

| | |
|-------------------|--------|
| 52mm FaderND MkII | £56.99 |
| 55mm FaderND MkII | £59.99 |
| 58mm FaderND MkII | £62.99 |
| 62mm FaderND MkII | £79.99 |
| 67mm FaderND MkII | £89.99 |
| 72mm FaderND MkII | £99.99 |

ND500MC (fixed 9 stop)

| | |
|--------------|--------|
| 58mm ND500MC | £39.99 |
| 58mm ND500MC | £47.99 |
| 67mm ND500MC | £55.99 |
| 72mm ND500MC | £59.99 |
| 77mm ND500MC | £64.99 |

Genuine LightCraftWorkshop filters - beware of imitations!

STEPPING RINGS

Step-Up and Step-Down Rings

Stepping rings are used to "step-up" or "step-down" from one filter thread size to another.

| | | | |
|---------|---------|---------|---------|
| 34-37mm | 52-55mm | 58-55mm | 67-62mm |
| 37-43mm | 52-58mm | 58-62mm | 67-77mm |
| 43-46mm | 55-52mm | 58-67mm | 72-67mm |
| 46-49mm | 55-58mm | 62-67mm | 72-77mm |
| 49-52mm | 55-52mm | 62-72mm | 77-72mm |

All just £4.99 each!

MACRO PHOTOGRAPHY

Reversing Rings - £12.99

These fit to the camera body, between the camera and lens, leaving a screw thread to enable the reverse mounting of lenses. A way of obtaining a high reproduction ratio, allowing extreme Macro photography.

Canon: 52, 55, 58, 62, 67mm
Nikon: 52, 55, 58, 62, 67mm
Pentax K: 52, 55, 58, 62, 67mm
Olympus: 52, 55, 58, 62, 67mm
Sony: 52, 55, 58, 62, 67mm

Extension Tubes

Set of 3 tubes. They contain no optics, they simply move the lens further from the camera body, allowing closer focusing. Autofocus tubes available in Canon, Nikon and Sony fittings - manual tubes are also available in Pentax and Olympus fittings.

Manual Focus Tubes £17.99
Autofocus Tubes £134.99

Extension Bellows

Acting like an adjustable set of extension tubes, they allow fine control over focusing distance. Nikon, Canon and Pentax fit.

Coupling Rings - £11.99

Used to attach two lenses together via their filter threads, achieving high magnifications

| | |
|---------------------------|---------------------------|
| 52-52mm, 52-55mm, 52-58mm | 55-55mm, 55-58mm, 58-58mm |
|---------------------------|---------------------------|

T2 Mounts - £12.99

Canon, Nikon, Sony, Olympus, Pentax

Series 7 Rings, Roller Rings and Hasselblad Rings also in stock.

Right Angle Viewfinders

Adjustable eyepiece, adjustable magnification, 360 degree rotating body. Ideal for close-up work.

| | |
|-----------|--------|
| 1.0X-2.0X | £49.99 |
| 1.0X-3.0X | £64.99 |

MACRO PHOTOGRAPHY

Reversing Rings - £12.99

These fit to the camera body, between the camera and lens, leaving a screw thread to enable the reverse mounting of lenses. A way of obtaining a high reproduction ratio, allowing extreme Macro photography.

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Nikon: 52, 55, 58, 62, 67mm
Pentax K: 52, 55, 58, 62, 67mm
Olympus: 52, 55, 58, 62, 67mm
Sony: 52, 55, 58, 62, 67mm

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Coupling Rings - £11.99

Used to attach two lenses together via their filter threads, achieving high magnifications

| | |
|---------------------------|---------------------------|
| 52-52mm, 52-55mm, 52-58mm | 55-55mm, 55-58mm, 58-58mm |
|---------------------------|---------------------------|

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Canon, Nikon, Sony, Olympus, Pentax

Series 7 Rings, Roller Rings and Hasselblad Rings also in stock.

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Adjustable eyepiece, adjustable magnification, 360 degree rotating body. Ideal for close-up work.

| | |
|-----------|--------|
| 1.0X-2.0X | £49.99 |
| 1.0X-3.0X | £64.99 |

SCREW-TYPE FILTERS

WOOD

Japanese Optical Glass Filters

Coated to reduce lens flare and reflections.

UV / Haze Filters

Used both to protect the lens of your camera, and to absorb ultraviolet rays that can cause photos to appear hazy.

| | |
|----------------|--------|
| 46mm UV / Haze | £6.99 |
| 52mm UV / Haze | £6.99 |
| 55mm UV / Haze | £7.99 |
| 58mm UV / Haze | £8.99 |
| 62mm UV / Haze | £11.99 |
| 67mm UV / Haze | £10.99 |
| 72mm UV / Haze | £11.99 |
| 77mm UV / Haze | £14.99 |
| 82mm UV / Haze | £17.99 |
| 86mm UV / Haze | £22.99 |

More sizes in stock, from 24 to 86mm!

Circular Polarising Filters

These remove reflections from surfaces such as glass and water, as well as increasing contrast and saturation.

| | |
|--------------------------|--------|
| 46mm Circular Polarising | £18.99 |
| 52mm Circular Polarising | £19.99 |
| 55mm Circular Polarising | £21.99 |
| 58mm Circular Polarising | £24.99 |
| 62mm Circular Polarising | £27.99 |
| 67mm Circular Polarising | £31.99 |
| 72mm Circular Polarising | £36.99 |
| 77mm Circular Polarising | £41.99 |
| 82mm Circular Polarising | £46.99 |
| 86mm Circular Polarising | £59.99 |

More sizes in stock, from 27 to 86mm!

Neutral Density Filters

Used to reduce the amount of light passing through the lens, reducing shutter speed without affecting colour contrast or balance. Available as ND4 (2 stop) and ND8 (3 stop).

| | |
|----------------|--------|
| 52mm ND4 / ND8 | £11.99 |
| 55mm ND4 / ND8 | £12.99 |
| 58mm ND4 / ND8 | £14.99 |
| 62mm ND4 / ND8 | £17.99 |
| 67mm ND4 / ND8 | £22.99 |
| 72mm ND4 / ND8 | £29.99 |
| 77mm ND4 / ND8 | £34.99 |

More sizes in stock, from 37 to 82mm!

Starburst Filters

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|-----------------------------|--------|
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| 67mm Starburst x4/6/8, each | £21.99 |
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Also available is the highly acclaimed ND500MC fixed 9-stop filter with ultra-thin frame for wide angle photography.

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|-------------------|--------|
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| 58mm FaderND MkII | £62.99 |
| 62mm FaderND MkII | £79.99 |
| 67mm FaderND MkII | £89.99 |
| 72mm FaderND MkII | £99.99 |

ND500MC (fixed 9 stop)

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|--------------|--------|
| 58mm ND500MC | £39.99 |
| 58mm ND500MC | £47.99 |
| 67mm ND500MC | £55.99 |
| 72mm ND500MC | £59.99 |
| 77mm ND500MC | £64.99 |

Genuine LightCraftWorkshop filters - beware of imitations!

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| RS-W1 Womens | £49.99 |
| RS-SPORT2 | £59.99 |
| RS-DR2 Double | £99.99 |

| | |
|----------------------|--------|
| 3-in-1 Straps & Bags | |
| SnapR-10 Small | £29.99 |
| SnapR-20 Medium | £34.99 |
| SnapR-35 Large | £39.99 |



SUN SNIPER

| | |
|--------------------|---------|
| Camera Straps | |
| ONE Sling Strap | £39.99 |
| STEEL Sling Strap | £49.99 |
| PRO Steel & Bear | £59.99 |
| DPH Dual Harness | £119.99 |
| TPH Triple Harness | £169.99 |

OP TECH USA

The World's best-selling SLR straps

OP/Tech camera straps use quick release connectors, allowing the strap to be removed from the camera without unthreading the strap. Wrist straps, neck straps and sling straps!

| Camera Straps | System Connectors |
|---------------------|-------------------|
| Wrist Strap | £11.99 |
| Classic Strap | £16.99 |
| Super Classic | £19.99 |
| Pro 3/8 Strap | £17.99 |
| Pro Loop Strap | £18.99 |
| Utility Sling Strap | £29.99 |
| Adapt-its (4) | £4.99 |
| Extensions (2) | £6.99 |
| UniLoop (2) | £6.99 |
| ProLoop (2) | £9.99 |
| Sling Support (2) | £9.99 |
| Sling Adapter | £10.99 |

SPIDER CAMERA HOLSTER

From hip to hand in a flash...

| | |
|--------------------|---------|
| Spider Pro | |
| Pro Holster | £89.99 |
| Pro Belt | £29.99 |
| Pro Single Kit | £109.99 |
| Pro Dual Kit | £189.99 |
| Spider Black Widow | |
| Widow Holster | £39.99 |
| Widow Belt | £19.99 |

SHUTTER RELEASES

Hahnel Giga T Pro Wireless Shutter Release & Interval Timer

The NEW Hahnel Giga T is a combined 100m wireless remote shutter release and timer remote control - as well as being able to be used as a short distance cable shutter release. Programmable features include a self-timer, interval timer, long exposure setting and exposure count. These settings can be used in any combination, making the possibilities virtually limitless. 2.4GHz frequency is ultra-reliable.

Channel selector for individual control of multiple cameras. Shutter release button with autofocus, single and continuous shooting, bulb mode and self-timer.

Available for Canon, Nikon, Sony, Olympus, Pentax and Samsung.



hahnel

RRP: £89.99
SPECIAL OFFER - SAVE £20
£69.99

Hahnel Combi TF Wireless Shutter Release & Wireless Flash Trigger

Ultra high frequency 2.4GHz professional radio remote control, with a range of up to 100 metres! Autofocus, Bulb Function and Continuous Shooting functions. 4 digit code selector allows individual codes to be set to eliminate interference from other sources.

Each kit contains a wireless transmitter, a receiver with camera shoe and connectors to allow it to plug into your camera.

Also works as a wireless flash trigger, and with the addition of extra receivers, multiple flashguns can be fired simultaneously.

Available for Canon, Nikon, Sony, Olympus, Panasonic, Pentax and Samsung.



hahnel

RRP: £69.99
SPECIAL OFFER - SAVE £20
£49.99

Hahnel Cable Remote Shutter Release

An innovative cable remote control for digital SLRs, with interchangeable camera connectors and a 2 metre extension lead, giving the choice of shutter release from 0.8 or 2.6 metres.

Autofocus, Bulb Function and Continuous Shooting functions.

Available for Canon, Nikon, Sony, Olympus, Panasonic, Pentax and Samsung.



hahnel

RRP: £29.99
SPECIAL OFFER - SAVE £10
£19.99

TRIPODS, MONOPODS & HEADS

Manfrotto

HALF PRICE HEADS!

| | |
|-------------------------------------|---------|
| 190XPROB Tripod + HALF PRICE 496RC2 | £142.48 |
| 190XPROB Tripod + HALF PRICE 804RC2 | £144.98 |
| 055XPROB Tripod + HALF PRICE 496RC2 | £157.48 |
| 055XPROB Tripod + HALF PRICE 804RC2 | £159.98 |



FREE Manfrotto Backpack with every 804RC2 tripod kit



FREE HEADS!

FREE Manfrotto 324RC2 Grip Head (RRP £121.99) with every Carbon Fibre PRO tripod!

MANFROTTO PRO TRIPODS

| 190XPROB Tripod | 055XPROB Tripod |
|---|---|
| Aluminium 3-section legs, aluminium canopy, Q10 horizontal tilting central column | Aluminium 3-section legs, aluminium canopy, Q10 horizontal tilting central column |
| Weight: 1.85kg Load: 5.0kg Folded: 57cm Height: 146cm | Weight: 2.40kg Load: 7.0kg Folded: 65cm Height: 178cm |
| £114.99 | £129.99 |

MANFROTTO PRO MONOPODS

| MM294A3 Monopod | MM294A4 Monopod | 695CX Monopod |
|--|--|--|
| Aluminium 3-section | Aluminium 4-section | Carbon Fibre 6-section |
| Weight: 0.50kg Load: 5.0kg Folded: 59cm Height: 151cm | Weight: 0.50kg Load: 5.0kg Folded: 49cm Height: 151cm | Weight: 0.80kg Load: 5.0kg Folded: 47cm Height: 160cm |
| £29.99 | £34.99 | £143.99 |

MANFROTTO PRO HEADS

| 492 Ball Head | 234 Tilt Head | 234RC Tilt Head |
|-------------------------------|-------------------------------|-------------------------------|
| non quick-release 1/4" thread | Weight: 0.27kg Load: 2.5kg | with RC2 quick release |
| Weight: 0.12kg Load: 2.0kg | £14.99 | Weight: 0.27kg Load: 2.5kg |
| £31.99 | | £26.99 |

MANFROTTO PRO HEADS

| 494 RC2 Ball Head | 496 RC2 Ball Head | 498 RC2 Ball Head |
|-------------------------------|-------------------------------|-------------------------------|
| with RC2 quick release | with RC2 quick release | with RC2 quick release |
| Weight: 0.32kg Load: 4.0kg | Weight: 0.46kg Load: 5.0kg | Weight: 0.67kg Load: 8.0kg |
| £46.99 | £54.99 | £84.99 |

MANFROTTO PRO HEADS

| 324RC2 Grip Action Ball Head | NEW MH054-Q2 Magnesium Ball Head | 468MG RC2 Hydrostatic Ball Head |
|------------------------------|----------------------------------|---------------------------------|
| with RC2 q/r | with RC2 q/r | magnesium, with RC2 q/r |
| Weight: 0.4kg Load: 3.5kg | Weight: 0.6kg Load: 10.0kg | Weight: 0.65kg Load: 10.0kg |
| £99.99 | £149.99 | £199.99 |

VANGUARD

HALF PRICE HEADS!

| | |
|--|---------|
| AltaPRO 263AT Tripod + HALF PRICE SBH100 | £149.98 |
| AltaPRO 263AT Tripod + HALF PRICE GH100 | £164.98 |
| AltaPRO 283CT Tripod + HALF PRICE SBH100 | £279.98 |
| AltaPRO 283CT Tripod + HALF PRICE GH100 | £294.98 |



£50 OFF RRP!
Alta+ 263AP Tripod including PH32 Three Way Head
RRP £149.99
£99.99

VANGUARD PRO TRIPODS

| AltaPRO 263AT Tripod | AltaPRO 264AT Tripod |
|---|---|
| Aluminium 3-section legs, magnesium canopy, MACC Multi-Angle-Central-Column | Aluminium 4-section legs, magnesium canopy, MACC Multi-Angle-Central-Column |
| Weight: 2.00kg Load: 7.0kg Folded: 63cm Height: 165cm | Weight: 2.10kg Load: 7.0kg Folded: 63cm Height: 155cm |
| £119.99 | £129.99 |

VANGUARD PRO MONOPODS

| AP284 Monopod | AP324 Monopod | CP284 Monopod |
|--|---|--|
| Aluminium 4-section legs | Aluminium 4-section legs | Carbon Fibre 4-section legs |
| Weight: 0.57kg Load: 8.0kg Folded: 51.5cm Height: 158cm | Weight: 0.69kg Load: 10.0kg Folded: 53.5cm Height: 167cm | Weight: 0.46kg Load: 8.0kg Folded: 51.5cm Height: 158cm |
| £39.99 | £46.99 | £99.99 |

VANGUARD PRO HEADS

| SBH30 Ball Head | SBH50 Ball Head | SBH100 Ball Head |
|---|---|---|
| Lightweight magnesium alloy, single adjuster knob, 2 spirit levels, quick release plate | Lightweight magnesium alloy, single adjuster knob, 2 spirit levels, quick release plate | Lightweight magnesium alloy, single adjuster knob, 2 spirit levels, quick release plate |
| Weight: 0.22kg Load: 5.0kg | Weight: 0.25kg Load: 6.0kg | Weight: 0.39kg Load: 10.0kg |
| £39.99 | £49.99 | £59.99 |

This is just a small selection of the VANGUARD range now available for demonstration in our showroom in Leamington Spa

KOOD

| A284 Tripod | C2504 Monopod |
|--|--|
| Aluminium 4-section | Carbon Fibre 4-section |
| Weight: 2.17kg Load: 8.0kg Folded: 56cm Height: 154cm | Weight: 0.59kg Load: 4.0kg Folded: 47cm Height: 155cm |
| £73.99 | £59.99 |

| BH02 Ball Head | BH08 Ball Head |
|--|--|
| Quick release plate, spirit level, 360 degree rotation, dual control knobs | Quick release plate, spirit level, 360 degree rotation, dual control knobs |
| Weight: 0.4kg Load: 8.0kg | Weight: 0.42kg Load: 12.0kg |
| £22.99 | £29.99 |

| BH22 Ball Head | BH25 Ball Head |
|---|---|
| Siding quick release plate, spirit level, 360 degree rotation, triple control knobs | Siding quick release plate, spirit level, 360 degree rotation, triple control knobs |
| Weight: 0.4kg Load: 8.0kg | Weight: 0.4kg Load: 8.0kg |
| £31.99 | £45.99 |

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| Triad 30 Lite | Triad 40 Lite | Triad 60 Lite |
|--|--|--|
| 4 section magnesium alloy tripod, legs extendable at 3 different angles, reversible centre column, built in spirit level. Supplied with BH30 alloy ball head, and carrying case. | 4 section magnesium alloy tripod, legs extendable at 3 different angles, reversible centre column, built in spirit level. Supplied with BH30 alloy ball head, and carrying case. | 4 section magnesium alloy tripod, legs extendable at 3 different angles, reversible centre column, built in spirit level. Supplied with BH30 alloy ball head, and carrying case. |
| Weight: 1.20kg Max Load: 4.0kg Folded: 56cm Max Height: 142cm | Weight: 1.58kg Max Load: 5.0kg Folded: 60cm Max Height: 153cm | Weight: 1.90kg Max Load: 5.0kg Folded: 61cm Max Height: 162cm |
| £39.99 | £49.99 | £59.99 |

| BH30 Ball Head | BH40 Ball Head |
|--|--|
| Quick release plate, spirit level, 360 degree rotation, dual control knobs | Quick release plate, spirit level, 360 degree rotation, dual control knobs |
| Weight: 0.4kg Load: 8.0kg | Weight: 0.4kg Load: 8.0kg |
| £24.99 | £29.99 |

| BH30 Ball Head | BH40 Ball Head |
|--|--|
| Quick release plate, spirit level, 360 degree rotation, dual control knobs | Quick release plate, spirit level, 360 degree rotation, dual control knobs |
| Weight: 0.4kg Load: 8.0kg | Weight: 0.4kg Load: 8.0kg |
| £24.99 | £29.99 |

Telephone: 01926 339977 or 0800 1077 211

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7D + 15-85 IS £1677

7D + 18-135 IS £1447

60D body £777

60D + 18-55 IS £876

60D + 18-135 IS £1047

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SX40IS £345 S100 £359

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60 F2.8 Macro USM £369

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24 F1.4 L II USM £1347

24 F2.8 L USM £379

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24-70 F2.8 L II USM preorder £2299

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24-105 F4 L IS USM unboxed £847

28 F1.8 USM £397

28 F2.8 £175

35 F1.4 L U £1189

35 F2 £229

50 F1.2 L USM £1279

50 F1.4 U £309

50 F1.8 II £95

50 F2.5 Macro £249

70-200 F2.8 IS U LII £1869

70-200 F2.8 non IS L USM £989

70-200 F4 L IS USM £969

70-200 F4 L USM £537

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70-300 F4.5/5.6 IS USM £419

85 F1.2 L II £1689

85 F1.8 USM £309

100 F2.8 IS L U macro £689

100 F2.8 Macro USM £439

100-400 F4.5/5.6 L IS USM £1237

135 F2 L USM £969

180 F3.5 L USM Macro £1297

200 F2.8 II L USM £637

300 F2.8 LII IS USM £5399

300 F4 L IS USM £1177

400 F2.8 IS L II USM £8880

400 F5.6 L USM £1099

500 F4 IS LII USM £8499

600 F4 IS LII USM £10999

Ext tube 12II £79 Ext tube 25II £129

1.4x III or 2x III converter ea £389

FLASH & ACCESSORIES

Angle finder C £189

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BG-E6 grip (5D MKII) £217

BG-E7 grip (7D) £147

BG-E9 grip (550D) £115

BG-E11 grip (60D) £139

LP-E4 £99 LP-E6 £59

MR 14EX Ringlight £469

MT-24EX £789

270 EX II £159 320EX £229

430 EX II £219

580 EX II £397

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£1869

100mm f2.8 IS L USM macro

£689

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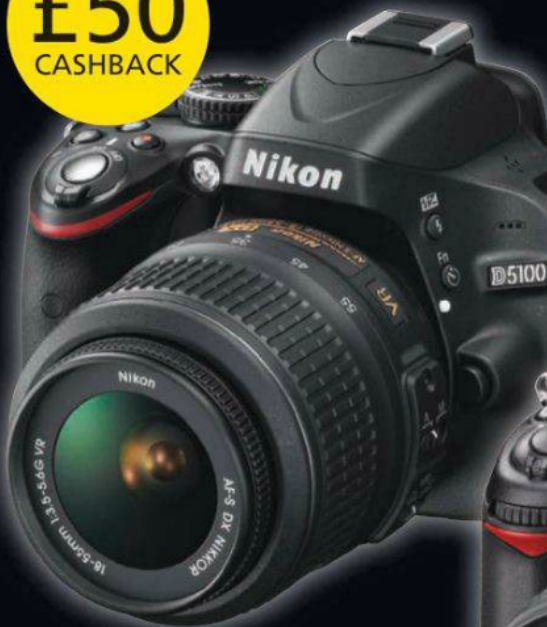
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- ▶ 3.0" LCD Screen
- ▶ Advanced IA (Intelligent Auto)

GF3 +14-42mm £359.99 GF3 +14mm £319.99

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Nikon D5100

- ▶ 16.2 Megapixel CMOS sensor
- ▶ High ISO (100-6400)
- ▶ Full HD movies
- ▶ 4 fps continuous shooting
- ▶ Compact & Lightweight

D5100 Body Only £524.99 D5100 + 18-55 VR £599.99

Nikon D90

- ▶ 12.3 Megapixel CMOS sensor
- ▶ High ISO (200-3200)
- ▶ D-Movie function
- ▶ 4.5 fps continuous shooting
- ▶ Compact & Lightweight

D90 Body Only £559.99 D90 + 18-105 VR £699.99

Nikon Lenses

| | | | | | |
|----------------------------|-----------|----------------------------|-----------|--------------------------------|-----------|
| AF-G 10.5mm f/2.8G ED DX | £509.99 | AF-S 85mm f/1.4G | £1,249.99 | AF-S 17-55mm f/2.8G IF-ED II | £1,079.99 |
| AF-D 14mm f/2.8D | £1,249.99 | AF-S 85mm f/3.5G DX Micro | £419.99 | AF-S 18-55mm f/3.5-5.6G II | £127.99 |
| AF-D 16mm f/2.8D Fisheye | £613.99 | PC-E 85mm f/2.8D ED | £1,399.99 | AF-S 18-55mm f/3.5-5.6G VR | £125.00 |
| AF-D 20mm f/2.8 | £469.99 | AF-DC 105mm f/2.0 Nikkor | £794.99 | AF-S 18-105mm f/3.5-5.6G VR II | £190.00 |
| AF-D 24mm f/2.8D | £329.99 | AF-D 135mm f/2.0D | £989.99 | AF-S 18-200mm f/3.5-5.6G VR II | £599.99 |
| AF-S Nikkor 24mm f/1.4G ED | £1,603.99 | AF-D 180mm f/2.8 IF-ED | £628.99 | AF-S 24-70mm f/2.8G ED | £1,218.99 |
| PC-E 24mm f/3.5D ED | £1,419.99 | AF-S 200mm f/2.8G ED VR II | £4,199.99 | AF-D 24-85mm f/2.8-4 | £529.99 |
| AF-D 28mm f/2.8 | £226.99 | AF-D 200mm f/4D IF-ED | £1,139.99 | AF-S 24-120mm f/4G ED VR | £829.99 |
| AF-S 35mm f/1.4G | £1,394.99 | AF-S 300mm f/2.8G ED VR II | £3,999.99 | AF-S 28-300mm f/3.5-5.6G VR | £709.99 |
| 35mm f/2.0 AF Nikkor D | £262.99 | AF-S 300mm f/4 D IF-ED | £979.99 | AF-S 55-200mm f/4-5.6G VR | £249.99 |
| 35mm f/1.8 AF-S DX | £169.99 | AF-S 400mm f/2.8G ED VR | £6,645.00 | AF-S 55-300mm f/4.5-6.3G VR | £274.99 |
| AF-S 40mm f/2.8G ED Micro | £219.00 | AF-S 500mm f/4G ED VR | £5,869.99 | AF-S 70-200mm f/2.8G VR II | £1,599.99 |
| PC-E 45mm f/2.8D ED Micro | £1,419.99 | AF-S 600mm f/4G ED VR | £7,199.99 | AF-S 70-300mm f/4.5-5.6G VR | £428.99 |
| AF 50mm f/1.4D | £239.99 | AF-S 105mm f/2.8G VR IF-ED | £612.99 | AF-D 80-400mm f/4.5-5.6G VR | £1,184.99 |
| AF-S 50mm f/1.4G | £293.99 | AF-S 10-24mm f/3.5-4.5G DX | £666.99 | AF-S 200-400mm f/4G VR II | £4,799.00 |
| AF-D 50mm f/1.8 | £112.99 | AF-S 14-24mm f/2.8G ED | £1,316.99 | TC-14E II 1.4x Teleconverter | £319.99 |
| AF-S 50mm f/1.8G | £184.99 | AF-S 16-35mm f/4G ED VR | £844.99 | TC-17E II 1.7x Teleconverter | £319.99 |
| AF-S 60mm f/2.8G ED Micro | £409.99 | AF-S 16-85mm f/3.5-5.6G VR | £448.99 | TC-20E II 2.0x Teleconverter | £404.99 |
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| 10mm f/2.8 EX DC HSM (Fisheye) | £489.00 |
| 15mm f/2.8 EX DG (Fisheye) | £499.99 |
| 20mm f/1.8 EX DG | £519.99 |
| 24mm f/1.8 EX DG | £449.99 |
| 28mm f/1.8 EX DG | £369.99 |
| 30mm f/1.4 EX DC HSM | £379.00 |
| 50mm f/1.4 EX DG HSM | £374.99 |
| 50mm f/2.8 EX DG Macro | £269.00 |
| 70mm f/2.8 EX DG Macro | £369.00 |
| 85mm f/1.4 EX DG HSM | £719.00 |
| 105mm f/2.8 EX DG OS HSM | £689.00 |
| 150mm f/2.8 EX DG OS HSM | £849.00 |
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| 500mm f/4.5 APO EX DG HSM | £3,849.99 |
| 800mm f/5.6 APO EX DG HSM | £4,349.99 |

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| 8-16mm f/4-5.6 DC HSM | £549.00 |
| 10-20mm f/4-5.6 EX DC HSM | £409.00 |
| 10-20mm f/3.5 EX DC HSM | £489.00 |
| 12-24mm f/4.5-5.6 DG HSM II | £679.00 |
| 17-50mm f/2.8 EX DC OS HSM | £549.99 |
| 17-70mm f/2.8-4 DC Macro OS | £339.99 |

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| | |
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| 18-50mm f/2.8-4.5 DC OS HSM | £179.99 |
| 18-125mm f/3.5-5.6 DC OS HSM | £253.99 |
| 18-200mm f/3.5-6.3 DC | from £169.99 |
| 18-200mm f/3.5-6.3 DC OS HSM | £248.00 |
| 18-200mm f/3.5-6.3 DC OS HSM II | £499.99 |
| 18-250mm f/3.5-6.3 DC OS HSM | £399.00 |
| 24-70mm f/2.8 EX DG HSM | £639.00 |

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| 50-150mm f/2.8 APO EX DC HSM II | £459.99 |
| 50-200mm f/4-5.6 DC OS HSM | £179.99 |

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| 50-500mm f/5-6.3 DG OS HSM | £1,125.00 |
| 70-200mm f/2.8 EX DG OS HSM | £979.00 |
| 70-300mm f/4-5.6 DG Macro | £119.99 |
| 70-300mm f/4-5.6 APO DG Macro | £177.99 |
| 70-300mm f/4-5.6 DG OS | £299.00 |
| 120-300mm f/2.8 EX DG OS HSM | £2,079.00 |
| 120-400mm f/4.5-5.6 DG OS HSM | £674.99 |
| 150-500mm f/5-6.3 DG OS HSM | £724.99 |
| 200-500mm f/2.8 EX DG APO | £12,999.00 |
| 300-800mm f/5.6 EX DG HSM | £5,499.99 |

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| 1.4x EX DG Teleconverter | £199.99 |
| 2x EX DG Teleconverter | £234.99 |



SIGMA DP1 / DP2 Merrill

- Foveon X3 Merrill Sensor
- 46 Megapixels
- 19mm f/2.8 (DP1) 30mm f/2.8 (DP2)
- Dual True II Engine
- 3.0" LCD Screen



NEW & Coming soon - Pre-orders taken now!

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NEW & NOW IN STOCK - See web for details



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- 3" LCD screen
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- Compatible with K-mount lenses



NEW & IN STOCK! See website for full details

PENTAX Q

- 12 MP CMOS sensor
- Full HD Video
- New range of lenses
- Shake reduction system
- 3.0" LCD Screen



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| Q + 8.5mm | £329.00 | Q + 8.5mm + 15mm | £449.99 |
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FUJIFILM X10

- 12MP EXR-CMOS sensor
- 28-112mm manual zoom lens
- f/2.0-f/2.8 aperture range
- Bright optical viewfinder
- Optical Image Stabilisation



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| X10 | £399.00 | Add a Fujifilm NP-50 battery for only £28.45! |
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FUJIFILM X100

- 12.3MP APS-C CMOS sensor
- 23mm prime lens
- f/2 - f/16 aperture range
- Revolutionary Hybrid Viewfinder
- One touch RAW shooting



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| X100 Silver | £699.00 | Add a Fujifilm X100 Premium Case for only £84.00! |
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SONY NEX-5N

- 16.1 Effective Megapixels
- Slim, light and compact
- High Speed Capture (10fps)
- Full HD Movie
- 3.0" Tilt-angle LCD Screen



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| NEX-5N Body Only | £449.00 | NEX-5N + 18-55mm | £489.00 |
|------------------|----------------|------------------|----------------|

SONY Alpha a77

- 24.3 Effective Megapixels
- Translucent Mirror Technology
- High Speed Capture (12fps)
- Full HD Movie
- Ultra-fast shutter lag



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|---------------|----------------|---------------|------------------|
| A77 Body Only | £998.00 | A77 + 16-50mm | £1,479.00 |
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SAMSUNG NX200

- 20.3 Megapixel APS-C Sensor
- High Speed Capture (7fps)
- Wide range ISO (100 - 12800)
- 1080 30p Full HD Movie
- i-Function 2.0
- 3.0" VGA AMOLED Display



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|-----------------|----------------|-----------------|----------------|-----------------|----------------|---|
| NX200 Body Only | £429.95 | NX200 + 18-55mm | £499.00 | NX200 + 20-50mm | £499.00 | Visit us instore or online for even more NX200 offers |
|-----------------|----------------|-----------------|----------------|-----------------|----------------|---|

Thanks to a 20.3 megapixels APS-C CMOS Sensor, the NX200 delivers images that will satisfy even the most discerning eye. Just as importantly, the camera's innovative features and design make those images easier than ever to capture.

Tamron Lenses

| | | |
|---|----------------|-----------|
| SP AF 60mm f/2.0 Di II LD [IF] Macro 1:1 | £369.99 | Our Price |
| SP AF 90mm f/2.8 Di Macro 1:1 | £359.99 | |
| SP AF 180mm f/3.5 Di LD [IF] Macro 1:1 (NAF) | £698.00 | |
| SP AF 10-24mm f/3.5-4.5 Di II LD Asp [IF] | £368.99 | |
| SP AF 17-50mm f/2.8 XR Di II VC LD Asp [IF] | £289.00 | |
| SP AF 28-75mm f/2.8 XR Di LD [IF] Macro | £357.99 | |
| AF 18-200mm f/3.5-6.3 XR Di II | £169.00 | |
| AF 18-270mm f/3.5-6.3 Di II VC PZD LD [IF] | £429.00 | |
| AF 28-300mm f/3.5-6.3 XR Di LD Asp [IF] Macro | £318.99 | |
| AF 28-300mm f/3.5-6.3 XR Di VC LD [IF] Macro | £459.99 | |
| SP AF 70-200mm f/2.8 Di LD [IF] Macro | £629.99 | |
| AF 70-300 f/4-5.6 Di LD Macro | £129.99 | |
| SP 70-300 f/4-5.6 Di VC USD | £339.99 | |
| SP AF 200-500mm f/5.6-6.3 Di LD [IF] | £849.99 | |

Tokina Lenses

| | | |
|---------------------------|----------------|-----------|
| AT-X 35mm f/2.8 Macro | £394.99 | Our Price |
| AT-X 100mm f/2.8 Macro | £399.99 | |
| AT-X 10-17mm f/3.5-4.5 DX | £509.99 | |
| AT-X 11-16mm f/2.8 Pro | £529.99 | |
| AT-X 12-24mm f/4 II | £529.99 | |
| AT-X 16-28mm f/2.8 FX | £739.99 | |
| AT-X 16.5-135mm f/3.5-5.6 | £299.99 | |
| T-X Pro 50-135mm f/2.8 | £599.99 | |
| AT-X 80-400mm f/4.5-5.6 D | £599.99 | |

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| HMC | UV | Circ-Pol |
| £16.13 | £39.66 | £54.99 |
| £17.76 | £41.76 | £39.99 |
| £19.80 | £44.86 | £64.99 |
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| £26.03 | £54.99 | £79.99 |
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- F832 MEDIUM PHOTO COURIER **£170**
- F833 LARGE PHOTO COURIER **£197**
- F10JD SMALL SHOULDER BAG **£109**

DOMKE F6 LITTLE BIT SMALLER ORIGINAL CANVAS

This exceptionally discreet bag with a low profile exterior. Similar to F-2 Original Bag, but scaled down for less equipment, such as 1 or 2 cameras with or without battery grips, 3-4 lenses, flash, and accessories.

rrp £122.99 **SAVE £13** **£110**

AVAILABLE IN SAND, BLACK & OLIVE

ORIGINAL CANVAS

- F2 SHOOTERS BAG **£159**
- F3X SUPER COMPACT **£143**
- F4AF PRO SYSTEM **£172**
- F5XA SHOULDER BAG **£65**
- F5XB SHOULDER BAG **£84**
- F5XZ SHOULDER BAG **£95**
- F6 LITTLE BIT SMALLER BAG **£109**
- F8 SMALL SHOULDER BAG **£91**
- F802 REPORTER SATCHEL **£112**
- F803 PHOTO SATCHEL **£144**
- F831 SMALL PHOTO COURIER **£109**
- F832 MEDIUM PHOTO COURIER **£153**
- F833 LARGE PHOTO COURIER **£88**
- F10JD SMALL SHOULDER BAG **£104**



VANGUARD UP-RISE 38 MESSENGER

This multi award winning range of bags has quickly become firm favourites with photographers. They have been well thought out in every detail so that you can be confident that your equipment will be protected, comfortable to carry and quick to access. They're made of high quality materials and look good as well, no wonder the reviews love them!

rrp £84.99 **SAVE £20** **£65**

- UP-RISE 28 MESSENGER **£55**
- UP-RISE 33 MESSENGER **£65**
- UP-RISE 34 SLING **£50**
- UP-RISE 43 SLING **£60**
- UP-RISE 45 BACKPACK **£70**
- UP-RISE 46 BACKPACK **£90**
- UP-RISE 48 BACKPACK **£95**
- BIIN 37 SLING **£29**
- BIIN 47 SLING **£39**
- BIIN 50 BACKPACK **£44**
- BIIN 59 DAYPACK **£59**
- BIIN 59 DAYPACK **£59**
- OUTLAWZ 16Z **£50**
- OUTLAWZ 17Z **£60**

VANGUARD KINRAY 43

- NEW IN**
- KINRAY 48 **£99**
- KINRAY 53 **£149**
- KINRAY 53 **£179**



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LOWEPRO PHOTO SPORT SLING 100AW

A totally new approach to carrying your camera system on photo adventure. Using the latest hi-tech materials and design to create the lightest and most comfortable backpack yet and your equipment is fully protected from extreme elements. Choose the 100AW for a small D-SLR system or the 200AW for a Pro D-SLR outfit with 1 or 2 lenses.

rrp £135.00 **SAVE £50** **£85**

PHOTO SPORT SLING 200AW **£130**



DSLR VIDEO PACK 150AW

- DSLR VIDEO PACK 250AW **£109**
- DSLR VIDEO PACK 350AW **£119**
- FASTPACK 200 **£50**
- FASTPACK 250 **£55**
- FASTPACK 350 **£59**
- PRO RUNNER 200AW **£45**
- PRO RUNNER 300AW **£59**
- VERSAPACK 200AW **£59**
- VERTEX 100AW **£90**
- VERTEX 200AW **£120**
- VERTEX 300AW **£160**
- STEALTH REPORTER D100AW **£65**
- STEALTH REPORTER D200AW **£84**
- STEALTH REPORTER D300AW **£89**

LOWEPRO DSLR VIDEO PACK 150AW

The popular Fastpacks have been upgraded with an All-Weather cover and, with the advent of HD movies on DSLRs, are designed to cover all possibilities. The sling design is so practical for quick access and there's even room for personal items.

rrp £89 **£89**

DSLR VIDEO PACK 250AW **£109**

DSLR VIDEO PACK 350AW **£119**



BILLINGHAM HADLEY PRO

This has been the most popular Billingham for many years. It's slim, practical and comfortable and just works so well for a small DSLR system. You can take the padded insert out and it becomes a perfect day bag that works well in town or country. Available in canvas or Fibrelite with leather trim, Khaki/Tan, Black/Tan, Black/Black or Sage/Tan.

rrp £180.00 **SAVE £21** **£159**

HADLEY DIGITAL CAMERA BAG **£99**

HADLEY SMALL **£119**

HADLEY LARGE **£139**

PACKINGTON **£239**



5 SERIES

- 225 **£229**
- 335 **£239**
- 445 **£259**

7 SERIES

- 107 **£229**
- 207 **£255**
- 307 **£269**

F-STOP

- F2.8 **£149**
- F1.4 **£174**

TAMRAC EXPEDITION 7X

Easily our most popular full photo backpacks, the Expeditions tick all the boxes. Apart from being remarkably good value, they are lightweight yet feature top level protection and comfort. There will be a size to suit your outfit and there are plenty of pockets for laptop, memory cards, filters, tripod.

rrp £227.40 **SAVE £83** **£144**

EXPEDITION 5X **£99**

EXPEDITION 6X **£135**

EXPEDITION 8X **£168**

EXPEDITION 9X **£188**



AERO

- 75 **£75**

SYSTEM

- 2 **£30**
- 3 **£41**
- 6 **£49**



TAMRAC EVOLUTION 6

Offers unprecedented versatility for quick access to photo gear. With its unique harness system, it can be carried three different ways: as a backpack or as a sling pack worn over the right shoulder or the left shoulder. Three ways to access your photo equipment.

rrp £134.99 **SAVE £50** **£85**

EVOLUTION 8 **£105**

EVOLUTION 9 **£135**

EVOLUTION MESSENGER 2 **£74**

EVOLUTION MESSENGER 4 **£88**



VELOCITY

- 7X **£52**
- 8X **£54**
- 9X **£58**
- 10X **£78**

EXPLORER

- 100 **£42**
- 200 **£51**
- 400 **£51**



TRIPODS

3 LEGGED THING X1.1 ADRIAN & AIRHED 1

The 2nd Generation X1.1a Adrian withstands loads up to 8kg. With the lowest shooting capability of any alloy tripod in the world, Adrian extends from just 125mm all the way to 1.55m! Made from their new Stealth Mag Alloy.

rrp £179 **£179**

JACK X4A + AIRHED1 **£199**

BRIAN X1.1 + AIRHED1 **£309**

ERIC X41 + AIRHED1 **£329**

BENRO TRAVEL ANGEL 2 A1692T & B-0 BALL HEAD

- Rust and weather resistant
- One leg and center column converts to monopod & walking stick
- Five section legs, Ultra compact design
- New B series dual action ball head - precision magnesium alloy with separate drag and lock control

rrp £209.00 **SAVE £10** **£199**

TRAVEL ANGEL 2 A1692T & B-1 **£219**

TRAVEL ANGEL A0685F & BH-00 **£109**

TRAVEL ANGEL A1685F & BH-0 **£129**

VANGUARD AUCTUS PLUS 238AT & PH-42

VANGUARD's top-of-the-line Auctus Plus tripod is loved by photographers for its stability and flexibility. It's designed to go from a studio to an outdoor shoot in a snap. Its ultra-smooth Extreme Support Height Positioning (ESHP) Wheel System is a dual-function wheel gear that adjusts central column height securely while supporting heavy gear.

rrp £379.98 **SAVE £121** **£259**

ALTA- 235AP & PH-22 **£120**

ALTA- 263AP & PH-32 **£125**

ALTA- 264AP & PH-32 **£140**

ALTA PRO 263AGH & GH-100 **£165**

ALTA- 225CP & PH-22 **£199**

AUCTUS PLUS 283AT & PH-42 **£259**

AUCTUS PLUS 283AT & SBH-250 **£259**

AUCTUS PLUS 323AT & PH-42 **£299**

AUCTUS PLUS 323AT & SBH-250 **£299**

AUCTUS PLUS 323CT & PH-42 **£379**

AUCTUS PLUS 323CT & SBH-250 **£379**

GH-100 BALL ACTION HEAD **£88**



VELBON ULTREK UT-43D

rrp £180.00 **SAVE £31** **£149**



VELBON V4 BOOM ARM

The ingenious new articulated boom arm can be added to your tripod between the head and legs to give you 180 degree tilt and a 360 degree. Just place in the desired position, then grip and twist to lock. Very clever. Or, we can supply complete with the revolutionary Velbon REXI L with the QHD-53E ball head for the perfect combination and saving you an extra £20. Perfect!

£69

- REXI L, QHD-53D & V4 **£199**
- REXI L & PH-157Q **£129**
- GEO E430 & QHD-53D **£189**
- GEO E440 & QHD-53D **£199**
- GEO E440L & PHD-54Q **£252**
- GEO E540 & PH-157Q **£199**
- GEO E540L & PH-157Q **£209**

TENBA SPECIALS

TENBA MESSENGER MINI PHOTO/LAPTOP

Messenger style camera bags have become extremely popular this year for their slim, practical design that doesn't shout 'cameras'. These Tenba's are made from the highest quality materials in the USA, have unique features such as the Quick Access Zipper and come in large choice of fun colours. The NEW Mini is ideal for the iPad or notebooks plus a D-SLR with 2-3 lenses, flash & accessories. Or choose the Small or Large models for more capacity or laptops.

rrp £77 **£77**

SMALL PHOTO/LAPTOP BAG **£88**

LARGE PHOTO/LAPTOP BAG **£93**

MEDIUM CAMERA BAG **£120**

DAYPACK PHOTO/LAPTOP **£130**

SHOOTOUT MINI BACKPACK **£110**

ULTRALIGHT BACKPACK **£130**

SMALL BACKPACK **£140**

MEDIUM BACKPACK **£170**



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| Bronica ETRS/SL | | 24mm F3.5 L.T.S.E. | E+/E++ | E799 - E839 | Angle Finder B. | E+/Mint | E45 - E49 | Panasonic 14-42mm F3.5-5.6 ASPH. OIS. | E+/E++ | E79 | SWMC Body + Finder. | E1249 | Leica R Series | | |
| ETRS Complete + AEI Prism. | E++ | E329 | 24-105mm F4.1 USM. | E++ | E859 - E899 | Speed Finder. | As Seen | E55 | Panasonic 14-42mm F3.5-5.6 M.Zuiko. | Mint | E149 | R Gold - 50mm F1.4. | Unused | E169 | |
| ETRS Complete. | E+/Mint | E299 - E349 | 28-155mm F3.5-5.6 USM. | E+/E++ | E179 - E229 | 1884 Speedlite. | E+/E++ | E5 - E9 | Panasonic 14-45mm F3.5-5.6 ASPH. G. | Mint | E149 | R Antirattle Body Only. | E+/Mint | E249 - E1099 | |
| 40mm F4 E. | E+/- | E129 | 28-200mm F3.5-5.6 USM. | E+/- | E169 | 24AT Speedlite. | E++ | E15 | 50mm F4 C Black. | As Seen | E+/E++ | E199 - E349 | R Chroma Body Only. | E++ | E399 - E999 |
| 45-50mm F4-5.6 PE. | E+/- | E109 | 28-300mm F3.5-5.6 I. USM. | E+/Mint | E159 | 2777 Speedlite. | E++ | E19 | Olympus 14-150mm F4-5.6 M.Zuiko ED. | Mint | E149 | R Chroma + Motordrive. | E++ | E699 | |
| 50mm F2.8 E. | E+/- | E49 | 50mm F2.5 EF Macro. | E++ | E179 | 290T Speedlite. | E++ | E35 | Olympus 17mm F2.8 M.Zuiko. | Mint | E149 | R Chroma Body Only. | E+/E++ | E349 - E449 | |
| 50mm F2.8 II. | E+/E++ | E79 | 70-200mm F4 L.6 USM. | Mint | E759 | 300TL Speedlite. | E+/E++ | E25 - E49 | Olympus 100-300mm F4-5.6 G OIS. | Mint | E349 | R Chroma Body Only. | E++ | E349 | |
| 100mm F4 PE Macro. | E++ | E249 | 70-300mm F4-5.6 USM. | E++ | E279 | 480T Speedlite. | E+/- | E129 | Canon EOS 10D Mktl Body Only. | E1249 | E1399 | R Chroma Body Only. | E+/- | E299 | |
| 135-220mm F4. | E+/- | E249 | 70-300mm F4-5.6 G OIS USM/E+. | E++ | E249 | 530T Speedlite. | E+/- | E109 | Canon EOS 10M Mktl Body Only. | E1249 | E1399 | R Chroma Body Only. | E+/E++ | E249 - E649 | |
| 150mm F3.5 E. | As Seen / Unused | E39 - E149 | 75-300mm F4-5.6 EF II. | E+/- | E39 - E109 | MJ Macroite. | E+/- | E79 | Canon EOS 10M Mktl Body Only. | E1249 | E1399 | R Chroma Body Only. | E+/E++ | E399 | |
| 150mm F3.5 PE. | E+/- | E149 | 75-300mm F4-5.6 USM. | E++ | E249 | MJ Macroite. | E+/Mint | E59 - E139 | Canon EOS 10M Mktl Body Only. | E1249 | E1399 | R Chroma Body Only. | E+/E++ | E349 | |
| 200mm F4.5 E. | As Seen / Unused | E79 - E249 | 75-300mm F4-5.6 USM. | E+/- | E69 | MA Drive Set (US Coastguard). | E+/- | E39 | Canon EOS 10M Mktl Body Only. | E1249 | E1399 | R Chroma Body Only. | E+/E++ | E349 | |
| 200mm F4.5 PE. | E+ / Unused | E129 - E279 | 75-300mm F4-5.6 USM II. | E+/- | E139 | Winder A. | E+/E++ | E5 - E25 | Canon EOS 10M Mktl Body Only. | E1249 | E1399 | R Chroma Body Only. | E+/E++ | E349 | |
| 200mm F5.6 E. | As Seen / E+/E++ | E129 - E159 | 75-300mm F4-5.6 USM III. | E+/E++ | E109 - E119 | Winder A2. | E+/E++ | E15 - E19 | Canon EOS 10M Mktl Body Only. | E1249 | E1399 | R Chroma Body Only. | E+/E++ | E349 | |
| 250mm F5.6 E. | As Seen / E+/E++ | E129 - E159 | 80-200mm F4-5.6-5.6 EF. | E+/- | E39 | | | | Canon EOS 10M Mktl Body Only. | E1249 | E1399 | R Chroma Body Only. | E+/E++ | E349 | |
| 2x Converter E. | E+/- | E79 - E89 | 100-200mm F4-5.6-5.6 EF II. | E++ | E39 - E69 | | | | Canon EOS 10M Mktl Body Only. | E1249 | E1399 | R Chroma Body Only. | E+/E++ | E349 | |
| Polairad Mag E. | E+/E++ | E35 - E75 | 100-200mm F4-5.6-5.6 EF II. | E++ | E39 - E69 | | | | Canon EOS 10M Mktl Body Only. | E1249 | E1399 | R Chroma Body Only. | E+/E++ | E349 | |
| Polairad Mag. | Unused | E59 | 85mm F1.8 USM. | E++ | E239 | | | | Canon EOS 10M Mktl Body Only. | E1249 | E1399 | R Chroma Body Only. | E+/E++ | E349 | |
| AEI Meter Prism. | E+/- | E79 | 100mm G2 USM. | E++ | E279 | | | | Canon EOS 10M Mktl Body Only. | E1249 | E1399 | R Chroma Body Only. | E+/E++ | E349 | |
| Prism Finder. | Exc / E+/- | E39 - E59 | 100mm F3.5 L Macro USM. | E++ | E849 - E899 | N1 + 24-85mm. | E+/- | E49 | Canon EOS 10M Mktl Body Only. | E1249 | E1399 | R Chroma Body Only. | E+/E++ | E349 | |
| Rotary Finder E. | As Seen / E+/- | E39 - E59 | 200mm F1.8 L USM. | Exc | E169 | N1 Body Only. | E+/- | E249 | Canon EOS 10M Mktl Body Only. | E1249 | E1399 | R Chroma Body Only. | E+/E++ | E349 | |
| Extension Tube E14. | E+ / Unused | E49 - E69 | 300mm F4 L USM. | E+/- | E869 | N1 + 28-80mm. | E+ / Unused | E49 - E69 | Canon EOS 10M Mktl Body Only. | E1249 | E1399 | R Chroma Body Only. | E+/E++ | E349 | |
| Extension Tube E28. | E+ / Mint | E99 - E79 | 400mm F5.6 L USM. | E+/- | E899 | AX Body Only. | Exc / E+/- | E179 - E229 | Canon EOS 10M Mktl Body Only. | E1249 | E1399 | R Chroma Body Only. | E+/E++ | E349 | |
| Macro Extender. | E+/- | E39 | 500mm F5.6 L USM. | E+/- | E899 | RTS Body Only. | As Seen / E+/- | E149 - E229 | Canon EOS 10M Mktl Body Only. | E1249 | E1399 | R Chroma Body Only. | E+/E++ | E349 | |
| Prism Finder G. | E+/- | E39 | 500mm F5.6 L USM. | E+/- | E899 | RTS + Winder. | E+/- | E149</ | | | | | | | |

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| Teleplus 2x M06 Converter | Unused £59 | F50 Chrome Body Only | E+/E++ £119 | 67 Mirror Up Body + Waist Level | E+ £299 |
| 120 Insert | E+/E++ £9 - £15 | F801 + MF21 Databack | E++ £69 | 67 Mirror Up + Plain Prism | Exc £249 |
| 120 Pro Mag | Mini £49 | F801 Body Only | E++ £39 | 35mm F4.5 Fisheye Takumar | E++ £650 |
| 120 Super Mag | E++ £35 | F601 Body Only | Exc/E+ £19 - £25 | 45mm F4.5 SMC | E++ £449 |
| 135N Super Mag | E++ £75 | F601 Date Body Only | E++ £29 | 55mm F3.5 Takumar | E++ £199 |
| 220 Insert | E+/E++ £9 - £20 | F601 Body Only | E++ £49 | 55mm F4 SMC | E+/Mini £259 - £349 |
| AE Prism Finder (FK402) | As Seen / Mini £49 - £89 | F4015 Q/Date Body Only | Unused £59 | 75mm F4.5 Takumar | E++ £149 |
| CD3 Prism Finder 645 | As Seen £39 | Pronica 6001 + 24-70mm | E++ £79 | 90mm F2.8 Leaf Shutter | E++ £129 |
| FF401 Plain Prism Finder | E++ £39 | Pronica S + 30-60mm | E++ £49 | 105mm F2.4 | Exc/E++ £99 - £199 |
| PO Motor Prism 645 | E++ £49 | 12-24mm F4.5 AFS DX ED | Mini £599 | 135mm F4 Macro | E++ £249 - £299 |
| Polaroid Mag | E+/E++ £20 - £25 | 14mm F2.8 AFD | E++ £749 | 135mm F4 Macro Takumar | Exc/E+ £149 - £159 |
| Prism Finder 645 | As Seen / E++ £29 - £59 | 17-55mm F2.8 G AFS DX FED | Mini £699 | 165mm F2.8 | As Seen / Mini £399 - £249 |
| Auto Extension Tube 1 | E+/E++ £20 - £25 | 18mm F2.8 AFD | E++ £699 | 200mm F4 | E+/E++ £139 - £199 |
| Auto Extension Tube 3S | E+/E++ £20 - £25 | 18-70mm F3.5-4.5 G AFS ED DX | E++ £1199 - £1799 | 200mm F4.5 Takumar | E+/E++ £119 - £199 |
| Flash L Grip (SuperPro) | E++ £20 - £25 | 20-35mm F2.8 AFD | E++ £449 | 300mm F4 | E+/E++ £199 - £349 |
| Revolving Tripod Adapter | E++ £29 | 24-50mm F3.4-5.6 AFD | E++ £109 | 300mm F4.5 Takumar | As Seen / E++ £159 - £349 |

Mamiya 645AFD Series

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|----------------------|----------|
| 645 AFD II Body Only | E++ £599 |
| 150mm F3.5 AF | E++ £349 |
| 210mm F4 AF ULD | E++ £699 |

Mamiya 7/7II Series

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|------------------------|--------------|
| 7II Black Body Only | E++ £799 |
| 43mm F4.5 L + Finder | Mini £1,099 |
| 65mm F4.5 L | Mini £599 |
| 100mm F4.5 L | E+/Mini £399 |
| Panoramic Adapter A701 | E++ £75 |

Mamiya RB67 Series

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|--------------------------|--------------------------|
| Pro SD Complete | E+/E++ £499 |
| Pro S Complete | E++ £299 |
| Pro S Body Only | Exc/E+ £119 - £149 |
| Pro S Complete | E++ £349 |
| 140mm F4.5 Macro ML-A | E++ £299 |
| 180mm F4.5 | As Seen / E++ £69 - £149 |
| 180mm F4.5 C | As Seen / E++ £69 - £149 |
| 180mm F4.5 KL-A | E+/E++ £199 - £249 |
| 360mm F6.3 | E++ £199 |
| Pro 220 Mag | As Seen £35 |
| Pro 220 Mag | E+/E++ £29 - £145 |
| ProSD 220 Mag (6x4.5) | E++ £39 |
| 45mm Auto Extension Tube | Mini £59 |
| Extension Tube No1 | E++ £65 |

Mamiya RZ67 Series

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|---------------------------|-----------------------------|
| Pro Complete | E++ £499 |
| 50mm F4.5 | Exc/E+ £299 - £350 |
| 50mm F4.5 W | Exc Demo / Mini £199 - £499 |
| 65mm F4.5 L | E++ £369 |
| 75mm F4.5 Shift W | As Seen / E++ £299 - £349 |
| 90mm F4.5 | As Seen £399 |
| 100-200mm F5.2 W | E++ £399 |
| 140mm F4.5 Macro ML-A | E++ £299 - £399 |
| 140mm F4.5 Macro W | E+/E++ £219 - £299 |
| 180mm F4.5 Soft VSF DA | E++ £599 |
| 180mm F4.5 | Mini £299 |
| 180mm F4.5 W | E+/E++ £179 - £199 |
| 180mm F4.5 WW | Exc/E+ £149 - £395 |
| 250mm F4.5 | Exc/E+ £179 - £199 |
| 250mm F4.5 W | E++ £199 - £225 |
| 350mm F5.6 Apo | E++ £499 |
| 360mm F6 | E+/E++ £249 - £299 |
| 1.4x Converter | E++ £199 - £249 |
| 120 Pro II Mag | E+/Mini £89 - £299 |
| 120 Pro Mag | E++ £59 |
| 120 Pro Mag (6x4.5) | E++ £145 |
| 220 Pro II Mag | E+/E++ £49 - £69 |
| AE Prism Finder | E++ £179 |
| PD Prism Finder | E++ £129 |
| Polaroid Mag | E++ £35 |
| 63 Bellows Lens Hood | Mini £39 |
| Transmitter M2 & Receiver | E++ £39 |
| Winder II | E+/Mini £59 - £85 |

Mamiya Twin Lens - Please Call

Minolta - Please Call

Nikon AF

| | |
|---------------------------------------|--------------------------|
| F6 Body Only | E++ / Mini £349 |
| F5 Body Only + MH30 Charger + Battery | E++ £259 |
| F5 Body Only | Exc/E+ £199 - £299 |
| F100 Body Only | As Seen / E++ £79 - £179 |
| F90X + MB10 Grip | As Seen / E+ £39 - £69 |
| F90X Body Only | E++ £59 |
| F90 Body Only | E++ £39 - £69 |
| F800 Black Body Only | E++ £39 |
| F80 Black + 28-100mm | E++ £89 |
| F80 Black + 35-70mm | E++ £89 |
| F80 Black + MB16 Grip | E+/E++ £69 - £79 |
| F80 Black Body Only | As Seen / E++ £29 - £89 |
| F70 Body Only | E++ £49 |
| F65 Black + 28-100mm | E++ £59 |
| F65 Chrome Body Only | As Seen / E++ £35 - £45 |
| F65 + Sigma 28-80mm | E++ £39 |
| F60 Chrome Body Only | As Seen / E++ £15 - £49 |
| F55 Chrome + 28-100mm | E++ £69 |
| F55 Chrome Body Only | E+/E++ £19 - £25 |
| F50 Black + 28-80mm | E++ £59 |
| F50 Black Body Only | E+/E++ £15 - £25 |

Nikon Manual - Please Call

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|-------------------|---------------------------|
| Pentax 645 Series | E++ £229 |
| 45mm F2.8 A | E++ £399 |
| 45-85mm F4.5 FA | E++ £549 |
| 55mm F2.8 A | E++ £225 |
| 80-160mm F4.5 A | E+/E++ £299 - £399 |
| 120mm F4 Macro FA | E++ £549 |
| 150mm F3.5 A | Unknown / E++ £169 - £229 |
| 120 Insert | E++ / Mini £35 - £79 |
| 220 Insert | E+/E++ £30 - £59 |

Pentax 67 Series

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|---|-----------------------|
| 67R Complete | E+/Mini £799 - £1,299 |
| 67 Mirror Up + Plain Prism | Exc £299 |
| 67 Mirror Up + TTL Prism + NPC Polaroid | E++ £249 |

Pentax 645 Series

| | |
|-------------------|---------------------------|
| 45mm F2.8 A | E++ £229 |
| 45-85mm F4.5 FA | E++ £549 |
| 55mm F2.8 A | E++ £225 |
| 80-160mm F4.5 A | E+/E++ £299 - £399 |
| 120mm F4 Macro FA | E++ £549 |
| 150mm F3.5 A | Unknown / E++ £169 - £229 |
| 120 Insert | E++ / Mini £35 - £79 |
| 220 Insert | E+/E++ £30 - £59 |

Pentax 67 Series

| | |
|---|-----------------------|
| 67R Complete | E+/Mini £799 - £1,299 |
| 67 Mirror Up + Plain Prism | Exc £299 |
| 67 Mirror Up + TTL Prism + NPC Polaroid | E++ £249 |

Pentax 645 Series

| | |
|-------------------|---------------------------|
| 45mm F2.8 A | E++ £229 |
| 45-85mm F4.5 FA | E++ £549 |
| 55mm F2.8 A | E++ £225 |
| 80-160mm F4.5 A | E+/E++ £299 - £399 |
| 120mm F4 Macro FA | E++ £549 |
| 150mm F3.5 A | Unknown / E++ £169 - £229 |
| 120 Insert | E++ / Mini £35 - £79 |
| 220 Insert | E+/E++ £30 - £59 |

Pentax 67 Series

| | |
|---|-----------------------|
| 67R Complete | E+/Mini £799 - £1,299 |
| 67 Mirror Up + Plain Prism | Exc £299 |
| 67 Mirror Up + TTL Prism + NPC Polaroid | E++ £249 |

Pentax 645 Series

| | |
|-------------------|---------------------------|
| 45mm F2.8 A | E++ £229 |
| 45-85mm F4.5 FA | E++ £549 |
| 55mm F2.8 A | E++ £225 |
| 80-160mm F4.5 A | E+/E++ £299 - £399 |
| 120mm F4 Macro FA | E++ £549 |
| 150mm F3.5 A | Unknown / E++ £169 - £229 |
| 120 Insert | E++ / Mini £35 - £79 |
| 220 Insert | E+/E++ £30 - £59 |

Pentax 67 Series

| | |
|---|-----------------------|
| 67R Complete | E+/Mini £799 - £1,299 |
| 67 Mirror Up + Plain Prism | Exc £299 |
| 67 Mirror Up + TTL Prism + NPC Polaroid | E++ £249 |

Pentax 645 Series

| | |
|-------------------|---------------------------|
| 45mm F2.8 A | E++ £229 |
| 45-85mm F4.5 FA | E++ £549 |
| 55mm F2.8 A | E++ £225 |
| 80-160mm F4.5 A | E+/E++ £299 - £399 |
| 120mm F4 Macro FA | E++ £549 |
| 150mm F3.5 A | Unknown / E++ £169 - £229 |
| 120 Insert | E++ / Mini £35 - £79 |
| 220 Insert | E+/E++ £30 - £59 |

Pentax 67 Series

| | |
|---|-----------------------|
| 67R Complete | E+/Mini £799 - £1,299 |
| 67 Mirror Up + Plain Prism | Exc £299 |
| 67 Mirror Up + TTL Prism + NPC Polaroid | E++ £249 |

Pentax 645 Series

| | |
|-------------------|---------------------------|
| 45mm F2.8 A | E++ £229 |
| 45-85mm F4.5 FA | E++ £549 |
| 55mm F2.8 A | E++ £225 |
| 80-160mm F4.5 A | E+/E++ £299 - £399 |
| 120mm F4 Macro FA | E++ £549 |
| 150mm F3.5 A | Unknown / E++ £169 - £229 |
| 120 Insert | E++ / Mini £35 - £79 |
| 220 Insert | E+/E++ £30 - £59 |

Pentax 67 Series

| | |
|---|-----------------------|
| 67R Complete | E+/Mini £799 - £1,299 |
| 67 Mirror Up + Plain Prism | Exc £299 |
| 67 Mirror Up + TTL Prism + NPC Polaroid | E++ £249 |

Pentax 645 Series

| | |
|-------------------|---------------------------|
| 45mm F2.8 A | E++ £229 |
| 45-85mm F4.5 FA | E++ £549 |
| 55mm F2.8 A | E++ £225 |
| 80-160mm F4.5 A | E+/E++ £299 - £399 |
| 120mm F4 Macro FA | E++ £549 |
| 150mm F3.5 A | Unknown / E++ £169 - £229 |
| 120 Insert | E++ / Mini £35 - £79 |
| 220 Insert | E+/E++ £30 - £59 |

Pentax 67 Series

| | |
|---|-----------------------|
| 67R Complete | E+/Mini £799 - £1,299 |
| 67 Mirror Up + Plain Prism | Exc £299 |
| 67 Mirror Up + TTL Prism + NPC Polaroid | E++ £249 |

Pentax 645 Series

| | |
|-------------------|---------------------------|
| 45mm F2.8 A | E++ £229 |
| 45-85mm F4.5 FA | E++ £549 |
| 55mm F2.8 A | E++ £225 |
| 80-160mm F4.5 A | E+/E++ £299 - £399 |
| 120mm F4 Macro FA | E++ £549 |
| 150mm F3.5 A | Unknown / E++ £169 - £229 |
| 120 Insert | E++ / Mini £35 - £79 |
| 220 Insert | E+/E++ £30 - £59 |

Pentax 67 Series

| | |
|---|-----------------------|
| 67R Complete | E+/Mini £799 - £1,299 |
| 67 Mirror Up + Plain Prism | Exc £299 |
| 67 Mirror Up + TTL Prism + NPC Polaroid | E++ £249 |

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| Pro 700DX Legs + 800 Ball Head SRP £318.89 SPECIAL £179 | Pro II Legs SRP £319.99 SPECIAL £89.99 |
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Pentax Manual - Please Call

Rollei 6000 Series

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|----------------------------|---------------------|
| KAC2A + Lenses + Digi Back | E++ £3,599 |
| 6000AF Body + Magazine | Mini £1,099 |
| 6000 Pro Complete | E++ £699 |
| 6000 M1 Complete | E+/E++ £399 - £399 |
| SLX M1 Complete | As Seen / E++ £299 |
| 50mm F4 HFT | Exc/E++ £199 - £299 |
| 50mm F4 PQ EL | E++ £599 |
| 50mm F2.8 HFT | E++ £449 |
| 120mm F4 PQ Makro | E++ £999 |
| 150mm F4 EL | E++ £499 |
| 150mm F4 HFT | E++ £149 - £199 |
| 150mm F4 HFT | E+/E++ £149 - £199 |
| 35mm F5.6 HFT | E++ £349 |
| 2x HFT Converter | E++ £79 |
| 120 Insert | E+/E++ £15 - £20 |
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| 120 Magazine (6008) 6008 | E++ £199 |
| Polaroid Mag 6008 | E+/Mini £49 - £179 |
| Polaroid Mag SLX6002/3 | E+/E++ £29 - £49 |
| SLX 6x4.5cm Back | E++ £39 |
| 45 Degree Finder | E+/Mini £249 - £299 |
| Aluminium Case | E++ £69 |
| Autobellows | E++ £399 |
| Quick Tripod Coupling | E++ £35 |
| SCA356 Flash Adapter | E++ £25 - £35 |

Rollei Twin Lens Reflex

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| 2.8X Xenotar | Exc £499 |
| 3.5F Planar Type 1 - Metered | E++ £699 |
| 3.5F Planar Type 2 - Metered | E++ £699 |
| Panoramic Head | E++ £99 |
| Pistol Grip | E++ £39 |
| Prism Finder | As Seen £59 |
| Rolleiflex | E++ £35 |
| Stereo Head | E++ £149 |

Rollei SL66 - Please Call

Voigtlander - Please Call

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GX-1 (Blk) + 14-42PZ + LVF-2 £719

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| Lumix LS-6 | £66 |
| Lumix FS-40 | £96 |
| Lumix FX-45 | £112 |
| Lumix FX-90 | £215 |
| Lumix LX-5 | £329 |
| Lumix FZ-48 | £259 |
| Lumix FZ-150 | £359 |
| Lumix SZ-1 | £144 |
| Lumix SZ-7 | £175 |
| Lumix TZ-18 | £169 |
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| Lumix TZ-25 | £229 |
| Lumix TZ-30 | £279 |
| Lumix FT10 | £142 |
| Lumix FT3 | £263 |

Canon

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| Ixus 125 HS | £188 |
| Ixus 240 HS | £235 |
| Ixus 500 HS | £249 |
| PowerShot A1300IS | £94 |
| PowerShot A4000IS | £139 |
| PowerShot SX240HS | £249 |
| PowerShot SX260HS | £274 |
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| 18-250mm f3.5-6.3 DC OS | £399 |
| 50-200mm f4/5.6 DC OS HSM | £179 |
| 50-500mm f4/6.3 APO EX DG | £1095 |
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| 70-300mm f4-5.6 APO DG Mac II | £169 |
| 70-300mm f4-5.6 DG OS | £299 |
| 120-400mm f4.5/5.6 APO OS | £729 |
| 150-500mm APO DG OS HSM | £799 |
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| 8mm f3.5 Fisheye | £569 |
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| 14mm f2.5 | £279 |
| 20mm f1.7 | £279 |
| 7-14mm f4 | £1029 |
| 14-42mm f3.5/5.6 (Un-Boxed from Kit) | £99 |
| X PZ 14-42mm f3.5-5.6 | £294 |
| X PZ 45-175mm f4-5.6 | £319 |
| 14-140mm f4-5.8 (Un-Boxed from Kit) | £479 |
| 45-200mm f4-5.6 | £265 |
| 100-300mm f4-5.6 | £446 |

All Lumix G + Leica Lenses - CLAIM £50 CASHBACK
(Except the two remaining Un-Boxed Lenses)

LEICA Lenses For G Series

| | |
|------------------------|------|
| Summilux 25mm f1.4 ASP | £429 |
| Macro 45mm f2.8 | £569 |

Nikon Coolpix

| | | | |
|-------|------|-------|------|
| S30 | £85 | S3300 | £108 |
| S6300 | £149 | L310 | £165 |
| L810 | £189 | P310 | £249 |
| S9300 | £249 | P510 | £329 |

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| Nikon D40 | £250 | P Adaptor | Olympus OM11 11.8/50 | £185 |
| Nikon F2.5 body | £250 | RB Extn Tube | Pentax Spotmatic 11.8/55 | £110 |
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| Nikon D100 inc grip body | £220 | RZ67 Bellows Hood G2 | Olympus IS100 28/110 | £50 |
| Nikon S 55/1.2 | £85 | Prism Finder | Canon EOS 500 28/70 Sigma | £75 |
| Nikon AFS 18-200 G | £345 | 645 150/3.5 | Nikon F50 28/80 | £90 |
| Nikon AFS 14-24/2.8G | £1025 | 75-150 Zoom | Minolta 7003i 35/105 | £99 |
| Nikon AFS VR 24-120 | £340 | 300/5.6 | Canon EOS 30E bto | £199 |
| Nikon PC Nikkor 28/4 | £365 | Prism Finder | Canon A1 + 11.8/50 | £170 |
| Nikkor AFD 35/2 | £140 | AE Prism | Pentax M230 35/80 | £80 |
| Nikon AFD 70/210 14/5.6 | £100 | 105-210 Zoom | Canon Pellix 11.4/50 | £200 |
| Nikon AFD 70/200 14/5.6 | £240 | 120 film back | Pentax M25S 28/80 | £115 |
| Nikon AFS G VR 70/200 11.8 | £1250 | 45/12.8C/645 | Canon EOS IV Body | £349 |
| Nikon AFD 28/105 3.5/4.5 | £175 | | Olympus OM10 11.8/50 | £55 |
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| EOS 20D + 18/55 EKS | £350 | 24-85mm Minolta AF | Pentax ES 11.8/55 SMC | £150 |
| 10-20 Sigma 14/5.6 | £349 | 18-200mm Sigma AF Boxed | Pentax MEF 35/70 12.8 AF | £190 |
| 10-22 Canon EF/USM | £580 | 70-210/4 Minolta AF | | |
| 17-85 Canon IS USM | £225 | 75-300/4.5/5.6 Min AF | Nikon AF Lenses | |
| EOS 50D boxed body | £499 | 18-70mm 1:3.5/4.5 Sony AF | 70-200/2.8 G VR boxed | £1,250 |
| 24-105 Canon L IS USM | £740 | 35-85 1:2.8 Vivitar Min MD | 17-50/2.8 Tamron SP | £365 |
| 12-24 Sigma EX DG | £449 | 35-105mm 1:3.5/4.5 Min AF | 24-120 4.5/5.6 VR | £365 |
| 2002.8 Canon L USM | £749 | Minolta 5200 XJ Flash | 80-200 4.5/5.6 Nikkor AFD | £85 |
| EF500 Sigma DG ST | £99 | | 100/3.5 Cosina NAF Macro | £130 |
| Canon BG68 Grip | £115 | 35mm Reflexes | 70-300 14/5.6 Nikkor G | £115 |
| Canon AGE1 Grip | £60 | Exakta RTL 1000 11.8/50 TTL | | |
| Canon BG63 Grip | £60 | Miranda Sensorox 211.8/50 | | |
| Canon P/shot Pro I | £235 | Minolta SR1 11.4/5.8 | | |
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huey PRO SAVE £63 **£54.97**

Thinktank Airport International V2

If you travel by air with a lot of camera gear, or one of the big telephoto lenses such as a 600mm, the Airport International V2.0 is your ideal roller bag. Not only is it designed to fit within most international carry-on sizes, but it gives you a huge amount of storage space and three built-in security locks. And as it's a roller, it makes your journey a little more comfortable. Into the bargain it looks like regular, professional grade luggage, not a camera bag.

Airport International V2 £245.00
Airport Airstream £213.00
Airport Take Off £239.00
Airport Security V2 £275.00
Airport Check In £94.00
Airport Ultralight V2.5 £121.99
Airport Antidote V2 £147.00
Airport Acceleration V2 £198.00

Thinktank Digital Holster 20 v2

Designed for regular size DSLRs, the shape of the bag conforms to the camera itself, with one straight side and one curved side, so it can stand up on its own. A "Pop Down" pouch increases bag height to house the lens hood or telephoto lens. Lid opens forward, away from the body, for fast and easy access.

Digital Holster 20 V2 £43.00
Digital Holster 10 V2 £35.99
Digital Holster 30 V2 £55.00
Digital Holster 40 V2 £52.00
Digital Holster 50 V2 £62.00

Thinktank Streetwalker Pro

Holds a pro sized DSLR body with up to a 400 f2.8 lens attached. Holds up to a 500 f4 with hood reversed. Front organiser includes passport pocket. Lower front pocket will support smaller monopods or tripods. Drop down tripod clip for larger tripods. Two side pockets and two stretch pockets. Seam-sealed raincover included. YKK locking zipper sliders.

Sized for international carry-on.

Streetwalker Pro £119.00
Streetwalker £98.00
Streetwalker Hard Drive £134.00

Thinktank Urban Disguise

Professional in appearance, these bags are not like traditional camera bags. Separate padded compartment for carrying up to a 17" laptop. Expansion zipper increases depth to fit pro size equipment. Easily accessible front organizer pocket. Leather handle clasp keeps two carrying handles together. Rear panel for roller handle attachment can be closed for use as another pocket.

Urban Disguise 35 V2 £115.00
Urban Disguise 40 V2 £115.00
Urban Disguise 50 V2 £133.00
Urban Disguise 60 V2 £144.00
Urban Disguise 70 Pro V2 £145.00

Thinktank Lens Changer 25 V2

Designed for lenses such as 14 - 24 f2.8, 28 - 135, and 28 - 200, with the lens hood attached. It rotates and locks on the Think Tank Photo belts, for easy access.

Lens Changer 25 V2 £22.00
Lens Changer 15 V2 £20.00
Lens Changer 35 V2 £23.50
Lens Changer 50 V2 £25.50
Lens Changer 75 Pop Down V2 £29.95

Thinktank Belts
Thin Skin Belt V2 £18.99
Pro Speed Belt V2 £24.99
Steroid Speed Belt V2 £34.00

Billingham Hadley Pro

Based on the immensely popular Billingham Hadley Original, the Hadley Pro has extra features: a carrying handle, a weatherproof zippered back pocket and the facility to accept AVEA pouches. The camera insert is removable so one day it can be a roomy, well-equipped camera bag; the next it can double as a business case or a slightly posh beach bag. It will accommodate A4 files and a small laptop.

Hadley Pro £144.95
Hadley Small SAVE £20 £120.00
Hadley Large £138.95
Hadley Digital £120.00

Billingham f Stop Bags

These surprisingly spacious bags are ideally suited for modern digital or film equipment - from compacts to SLRs - even with lenses attached. The f/stops provide the same high levels of protection as Billingham's other products courtesy of a 25mm thick reinforced foam base and wrap-around side padding.

f1.4 Shoulder Bag SAVE £20 £149.95
f2.8 Shoulder Bag SAVE £35 £135.95

Billingham Accessories
AVEA Pouch 3 SAVE £5 £43.95
AVEA Pouch 5 SAVE £5 £45.50
Shoulder Pad SP40 £23.95
Shoulder Pad SP50 £23.95

FREE with f Stop bags

FREE ACCESSORY KIT WORTH OVER £50
5/8" Tripod Strap (E19), Luggage Tally (E17) & 8-15 Superflex (E16)

FREE with Hadley Pro or Hadley Large bags

FREE ACCESSORY KIT WORTH OVER £40
SP40 Shoulder Pad (E27) & Luggage Tally (E17)

Giottos MTL8360B Tripod

Has all the benefits of the vertical column tripod with the added benefit of being able to move the column from its vertical position through a 180 degree angle and lock where required. This feature, combined with the variable leg angle settings, now offers you the capability to position your camera exactly where you need it to achieve that perfect close-up shot.

Max Height 56cm. Min Height 22cm.
Max Height with out centre column 136cm.
Max height with centre column 154cm. Weight 1.8kg.
Weight Capacity 8kg. Material carbon fibre.

MTL8360B Tripod £189.95

FREE UK mainland delivery on all orders over £65

Manfrotto 055CXPRO3

Specifically designed for extreme outdoor assignments. The legs and the column are made of 100% carbon fiber combined with magnesium die-casting quick action lever locking collars. The magnesium top plate has a bubble level. Weight: 1.65kg. Closed length: 65cm. Max height: 175cm. Max height centre column down: 140cm. Min height: 11.5cm. Load capacity: 8kg.

055CXPRO3 Tripod SAVE £115 £214.97
055CXPRO4 Tripod SAVE £104 £244.97

Half price bag with these tripods

Slik Pro 400DX Kit

Using D-Shape aluminium for stability, it has 3-section, multi position legs, ideal for low-level photography and extra versatility on uneven ground. Each leg is foam covered for comfort. The centre column is simple to adjust - just loosen the locking mechanism and move to the desired position. The centre column can also be reversed, a great feature for close up/macro photography! Comes with the excellent SH705E head, with two pan handles to control pan and tilt and a multi position quick release plate. Max height column extended: 155cm. Min height: 59cm (33cm with optional short column). Folded length: 65cm. Load capacity: 5kg. Weight: 2.52kg.

400DX Tripod & Head £69.95
500DX Tripod & Head SAVE £130 £99.87

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Holidays & Courses



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The break includes:

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- Guidance by two professional photographers • Transport around Bute.

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| Bronica SQ 150mm f4 Zenzanon PS | £175 | £150 | Canon EOS300 body | £250 |
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| Pentax 28mm f2.8 SMC-M | £49 | £35 | Sigma 10-20mm f4-5.6 DC Pentax AF | £275 |
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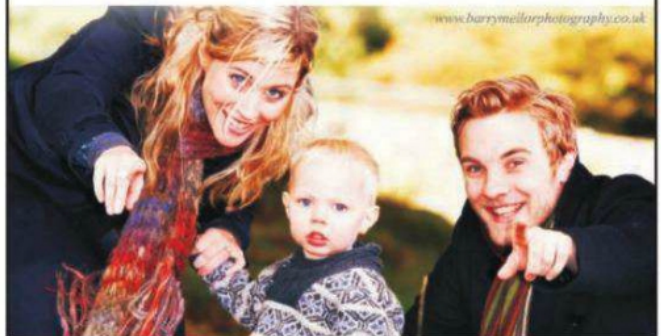


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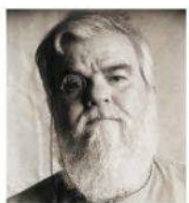
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ROGER HICKS

Why do computer software programmers make the creation of a website using HTML so difficult?

IT IS pretty much *de rigueur* for everyone nowadays to have a website, especially photographers, but anyone who has ever tried to put one together must surely have mixed feelings about them. It's not so much the website itself, as the process of creating it. There's a three-way choice. You can abdicate responsibility and turn it over to someone who will, for a price, create something that is a great deal closer to what they want than to what you want. You can use templates, which is probably the best bet if you actually have anything to say or show, rather than wanting a triumph of presentation over content. Or you can try to do it from scratch, which is where the Prince of Darkness comes into it. Describing something as 'the invention of the Devil' is a common enough expression, but what would be the distinguishing marks of a true invention of the Devil?

First, pretty much by definition, it must be destructive rather than creative. It must fly in the face, as far as possible, of anything good that has gone before.

Second, it must be as time-consuming as possible. Not only does the Devil find work for idle hands, but he also insidiously suggests that this work is honest and worthwhile, so that it greatly reduces the time available for real work or even for honest reflection.

Third, it must be both frustrating and depressing. It should make reasonable people break down and decide either to smash everything around them, or at least give up on whatever they are trying to do.

Fourth, it should be disseminated as widely as possible. Folding chairs are widespread and famous for pinching fingers, but mental pain is far easier to spread far and wide, especially with the aid of computers.

Fifth, it should have its true believers. Notimps and demons, nor even those who have sold their souls to the Devil in a true Faustian pact, signed in their own blood, but those who have been seduced by His Satanic Majesty without actually realising it.

At this point, Hyper-Text Markup Language (HTML) ticks every single box. First, it destroys carefully conceived layouts in much the same way as could be achieved by loading the pictures, captions and paragraphs into a gun and shooting them at the

screen. It is not actually possible to create a coherent whole that can be resized, re-flowed and generally re-made-a-mess-of every time it appears on a different screen. It is ugliness and stupidity personified.

Second, few things could be better calculated to waste time than describing everything you do, many times over, and adding little pointy brackets around the descriptions, <thus>.

Third, all that is required is that it forces people who can think, and read, and write, into a straitjacket devised by computer nerds.

Fourth, I need only cite the internet. HTML is the tool *par excellence* of the internet, and quite honestly, I sometimes wonder whether the Prince of Lies may have been responsible for this, too. It's an ingenious stratagem: allow just enough good to flow from the invention that people overlook the way in which it is used to disseminate ignorance, false information, hatred, paranoia, pornography, bigotry and boundless rumour. If you wonder how it is possible to disseminate ignorance, consider the possibility that truth and

clear thinking are all too easily displaced by false information, hatred, paranoia, pornography, bigotry and boundless rumour.

Fifth, I do not doubt for one nanosecond that there will be those who will take me to task for what I have just written. No doubt some of them will be rational, intelligent people. But many won't. There will be *ad hominem* attacks about how I am too stupid, lazy, elderly to bother to learn HTML, and there will be those who will defend the internet as unqualified good news, when a moment's thought will reveal that the only dispute must be over the extent to which the good news is qualified.

Many years ago, I used to work for International Computers Ltd (ICL). Something I repeatedly pointed out to the software experts was that a computer program should be 'transparent'. In other words, the end user shouldn't have to think about how it works. If they have to think about it, the programmers haven't done their job properly. The thing is, programmers get so hung up on their programming that they forget what they are producing is not an end in itself, but a means to an end – and so it is with HTML. **AP**

Roger Hicks is a much published author on photography. He has written more than three dozen books on the subject, many in partnership with his wife Frances Schultz. He has been a freelance photographer/writer since 1981, contributing to many magazines. Visit his website at www.rogerandfrances.com

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